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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁷: **C12Q 1/68**

(21) International Application Number: PCT/IB02/00565

(22) International Filing Date: 25 February 2002 (25.02.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/811,352   19 March 2001 (19.03.2001)   US
10/067,514   4 February 2002 (04.02.2002)   US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier applications:
US   09/811,352 (CON)
Filed on   19 March 2001 (19.03.2001)
US   Not furnished (CON)
Filed on   4 February 2002 (04.02.2002)

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(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 02/074992 A2

(54) Title: HUMAN STROKE GENE

(57) **Abstract:** A role of the human PDE4D gene in stroke is disclosed. Methods for diagnosis, prediction of clinical course and treatment for stroke using polymorphisms in the PDE4D gene are also disclosed.

HUMAN STROKE GENE

RELATED APPLICATION

This is a continuation of U.S. Application _____ (2345.2010-003), which was filed on February 4, 2002, which is a continuation-in-part of U.S. Application No. 09/811,352, filed March 19, 2001. The entire teachings of the above applications are incorporated herein by reference.

BACKGROUND OF THE INVENTION

Stroke is a major health problem in western societies. It is the leading cause of disability, the second leading cause of dementia and the third most common cause of death (Bonita, R., *Lancet 339*:342 (1992)). As it is more common in the elderly, the public health impact of stroke will increase in the next decades with growing life expectancy. Almost 1 out of 4 men and nearly 1 out of 5 women aged 45 years will have a stroke if they live to their 85th year (Bonita, R., *Lancet 339*:342 (1992)). Strategies to diminish the impact of stroke includes prevention and treatment with thrombolytics and possibly neuroprotective agents. The success of preventive measures will depend on the identification of risk factors and means to modulate their risk.

The clinical phenotype of stroke is complex but can be broadly divided into ischemic and hemorrhagic stroke. The majority of strokes (80 to 90%) are ischemic, caused by obstruction of blood flow through extra- or intracranial vessels (Mohr, J.P., *et al., Neurology, 28*:754-762 (1978); Caplan, L.R., *In Stroke, A Clinical Approach* (Butterworth-Heinemann, Stoneham, MA, ed 3, 1993)). The remainder are hemorrhagic strokes (10-20%), resulting from ruptures of intracranial vessels. Ischemic stroke can be further subdivided into large vessel occlusive disease, small vessel occlusive disease, and cardiogenic stroke. Transient ischemic attack (TIA), although not defined as a stroke because the signs and symptoms (which are the same as for stroke) last for a short period of time (less than 24 hours, usually 5 to 20

minutes), indicates a serious underlying risk that a stroke may follow, and it is believed that the same pathophysiologic mechanisms are responsible for TIA and ischemic stroke (Caplan, L.R., *In Stroke, A Clinical Approach* (Butterworth-Heinemann, Stoneham, MA, ed 3, 1993)).

5   The predominant risk factor for all types of stroke is hypertension (Thompson, D.W. and A.J. Furlan, *Neurosurg. Clin. N. Am.*, 8:265-269 (1997); Agnarsson, U., *et al., Ann. Intern. Med., 130*:987 (1999)) . Hypertension is in itself a complex disease as are the other known secondary risk factors, diabetes and hyperlipidemia. In addition, there are environmental risk factors such as smoking.

10   Stroke is therefore considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple risk factors, genetic and environmental.

The identification of genetic determinants of common diseases such as stroke, which may result from an interplay among multiple genes and between genes and environmental risk factors, has proven to be a difficult task. Studies of the

15   genetic contribution to stroke have mainly focused on rare Mendelian diseases where stroke is a part of the phenotype or on finding association with possible candidate genes such as genes contributing to hypertension or lipid metabolism. Several genes have been identified that play roles in the pathogenesis of rare stroke syndromes such as the *Notch3* gene in CADASIL (cerebral autosomal dominant arteriopathy

20   with subcortical infarctions and leukoencephalopathy) (Tournier-Lasserve, E., *et al., Nat. Genet., 3*:256-259 (1993); Joutel, A., *et al., Nature, 383*:707 (1996)), *Cystatin C* in the Icelandic type of hereditary cerebral hemorrhage with amyloidosis (Palsdottir, A., *et al., Lancet, 2*:603-604 (1998)), *APP* in the Dutch type of hereditary cerebral hemorrhage (Levy, E., *et al., Science, 248*:1124 (1990)), and the

25   *KRIT1* gene in patients with hereditary cavernous angioma (Gunel, M., *et al., Proc. Natl. Acad. Sci. U.S.A., 92*:6620-6624 (1995); Laberge-le Couteulx, S., *et al., Nat. Genet. 23*:189 (1999); Sahoo, T., *et al., Hum. Mol. Genet. 8*:2325 (1999)) .

In addition to family history information for stroke, it is desirable to develop diagnostic methods for the early diagnosis of the disease or predisposition for the

30   development of stroke. Better means for predicting and identifying stroke should lead to better prophylactic and treatment regimens.

SUMMARY OF THE INVENTION

As described herein, it has been discovered that the gene that encodes
phosphodiesterase 4D (hereinafter referred to as "PDE4D") has been correlated
through human linkage studies to stroke, particularly ischemic strokes and transient
5   ischemic attacks. Five new exons, here referred to as 4D7-1, 4D7-2 , 4D7-3, 4D6
and 4D8 have been identified. Three novel splice variants have also been identified
(see Fig. 4).

The present invention relates to isolated nucleic acid molecules comprising
the PDE4D gene. In one embodiment, the isolated nucleic acid molecule comprises
10 a nucleotide sequence selected from the group consisting of SEQ ID NO: 1 which
may optionally comprise at least one polymorphism as shown in Tables 9 and 10,
and the complement thereof. The invention further relates to a nucleic acid
molecule which hybridizes under high stringency conditions to a nucleotide
sequence selected from the group consisting of SEQ ID NO: 1 which may optionally
15 comprise at least one polymorphism as shown in Tables 9 and 10, and the
complement thereof. The invention additionally relates to isolated nucleic acid
molecules (e.g., cDNA molecules) encoding a PDE4D polypeptide (e.g., encoding
SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14 or another splicing variant of PDE4D
polypeptide which includes a polymorphic site and/or novel exon selected from the
20 group consisting of 4D6, 4D7-1, 4D7-2, 4D7-3 and 4D8).

The invention further provides a method for assaying a sample for the
presence of a nucleic acid molecule comprising all or a portion of PDE4D in a
sample, comprising contacting said sample with a second nucleic acid molecule
comprising a nucleotide sequence encoding a PDE4D polypeptide (e.g., SEQ ID
25 NO: 1 or the complement of SEQ ID NO: 1 which may optionally comprise at least
one polymorphism as shown in Tables 9 and 10; a nucleotide sequence encoding
SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14 which may optionally comprise at
least one polymorphism as shown in Tables 9 and 10, or another splicing variant of
PDE4D polypeptide which includes a polymorphic site and/or exon selected from
30 the group consisting of 4D6, 4D7-1, 4D7-2, 4D7-3 and 4D8), or a fragment or
derivative thereof, under conditions appropriate for selective hybridization. The

invention additionally provides a method for assaying a sample for the level of
expression of a PDE4D polypeptide, or fragment or derivative thereof, comprising
detecting (directly or indirectly) the level of expression of the PDE4D polypeptide,
fragment or derivative thereof.

5   The invention also relates to a vector comprising an isolated nucleic acid
molecule of the invention operatively linked to a regulatory sequence, as well as to a
recombinant host cell comprising the vector. The invention also provides a method
for preparing a polypeptide encoded by an isolated nucleic acid molecule described
herein (an PDE4D polypeptide), comprising culturing a recombinant host cell of the
10   invention under conditions suitable for expression of said nucleic acid molecule.

        The invention further provides an isolated polypeptide encoded by isolated
nucleic acid molecules of the invention (e.g., PDE4D polypeptide), as well as
fragments or derivatives thereof. In a particular embodiment, the polypeptide
comprises the amino acid sequence of SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO:
15   4, SEQ ID NO: 5, SEQ ID NO: 6 , SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9,
SEQ ID NO: 10, SEQ ID NO: 12 or SEQ ID NO. 14 and containing at least one
polymorphism described herein, particularly a polymorphism in all or a portion of
exon 4D1, such as a SNP at 1,591,306, or one or a combination of SNPs in Table
5B. In another embodiment, the polypeptide is another splicing variant of an
20   PDE4D polypeptide, particularly a splicing variant containing all or a portion of
exon selected from the group consisting of, 4D7-1, 4D7-2, 4D7-3 and 4D8. The
invention also relates to an isolated polypeptide comprising an amino acid sequence
which is greater than about 90 percent identical to the amino acid sequence of SEQ
ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID
25   NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, SEQ ID NO:10, SEQ ID NO: 12 or SEQ ID
NO: 14 and containing at least one polymorphism described herein, particularly a
polymorphism in all or a portion of exon 4D1, such as a SNP at 1,591,306, or one
or a combination of SNPs in Table 5B; preferably about 95 percent identical.

        The invention also relates to an antibody, or an antigen-binding fragment
30   thereof, which selectively binds to a polypeptide of the invention, as well as to a
method for assaying the presence of a polypeptide encoded by an isolated nucleic

acid molecule of the invention in a sample, comprising contacting said sample with an antibody which specifically binds to the encoded polypeptide.

The invention further relates to methods of diagnosing a predisposition to stroke. The methods of diagnosing a predisposition to stroke in an individual include detecting the presence of a mutation in PDE4D, as well as detecting alterations in expression of an PDE4D polypeptide, such as the presence of different splicing variants of PDE4D polypeptides. The alterations in expression can be quantitative, qualitative, or both quantitative and qualitative. The methods of the invention allow the accurate diagnosis of stroke at or before disease onset, thus reducing or minimizing the debilitating effects of stroke.

The invention additionally relates to an assay for identifying agents which alter (e.g., enhance or inhibit) the activity or expression of one or more PDE4D polypeptides. For example, a cell, cellular fraction, or solution containing an PDE4D polypeptide or a fragment or derivative thereof, can be contacted with an agent to be tested, and the level of PDE4D polypeptide expression or activity can be assessed. The activity or expression of more than one PDE4D polypeptides can be assessed concurrently (e.g., the cell, cellular fraction, or solution can contain more than one type of PDE4D polypeptide, such as different splicing variants, and the levels of the different polypeptides or splicing variants can be assessed).

In another embodiment, the invention relates to assays to identify polypeptides which interact with one or more PDE4D polypeptides. In a yeast two-hybrid system, for example, a first vector is used which includes a nucleic acid encoding a DNA binding domain and also an PDE4D polypeptide, splicing variant, or fragment or derivative thereof, and a second vector is used which includes a nucleic acid encoding a transcription activation domain and also a nucleic acid encoding a polypeptide which potentially may interact with the PDE4D polypeptide, splicing variant, or fragment or derivative thereof (e.g., a PDE4D polypeptide binding agent or receptor). Incubation of yeast containing both the first vector and the second vector under appropriate conditions allows identification of polypeptides which interact with the PDE4D polypeptide or fragment or derivative thereof, and thus can be agents which alter the activity of expression of an PDE4D polypeptide.

Agents that enhance or inhibit PDE4D polypeptide expression or activity are also included in the current invention, as are methods of altering (enhancing or inhibiting) PDE4D polypeptide expression or activity by contacting a cell containing PDE4D and/or polypeptide, or by contacting the PDE4D polypeptide, with an agent

5   that enhances or inhibits expression or activity of PDE4D or polypeptide.

Additionally, the invention pertains to pharmaceutical compositions comprising the nucleic acids of the invention, the polypeptides of the invention, and/or the agents that alter activity of PDE4D polypeptide. The invention further pertains to methods of treating stroke, by administering PDE4D therapeutic agents,

10   such as nucleic acids of the invention, polypeptides of the invention, the agents that alter activity of PDE4D polypeptide, or compositions comprising the nucleic acids, polypeptides, and/or the agents that alter activity of PDE4D polypeptide.

BRIEF DESCRIPTION OF THE DRAWINGS

The foregoing and other objects, features and advantages of the invention

15   will be apparent from the following more particular description of preferred embodiments of the invention, as illustrated in the accompanying drawings.

Figs. 1A and 1B show two family pedigrees each affected by several of the stroke subtypes, including hemorrhagic stroke.

Figs. 2A, 2B and 2C show the genetic, combined and physical maps for

20   locating the PDE4D gene using 30 polymorphic markers. For the combined map, all markers have been assigned in the genetic and physical map unless otherwise indicated. (* indicates markers only assigned in physical map; ** indicates markers only assigned in genetic map).

Fig. 3 shows the genetic map of the stroke locus with exons and polymorphic

25   markers indicated. Markers identified by asterisks show association. The area defined by one drop in lod is approximately 4.6 Mb (approximately 5-6 cM).

Fig. 4 shows schematic representations of PDE4D splice variants. Splice variants 4D6, 4D7 and 4D8 are novel, as well as exons 4D6, 4D7-1, 4D7-2, 4D7-3 and 4D8. Splice variants 4DN1, 4DN2 and 4DN3 (Miro, *et al., Biochem. Biophys.*

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Res. Comm., *274*:415-421 (2000)), and 4D1, 4D2, 4D3, 4D4 and 4D5 (Bolger *et al.*, *Biochem. J.*, *Pt2*:539-548 (1997) are known.

Fig. 5 is a schematic representation of the genetic map showing microsatellites and SNP haplotypes within the stroke gene.

5   Figs. 6.1 to 6.351 show the genomic sequence of the human PDE4D gene.

Figs. 7.1 to 7.10 show the amino acid sequences for the isoforms of the PDE4D gene. SEQ ID NO: 2 is D4; SEQ ID NO: 3 is N2; SEQ ID NO: 4 is D5; SEQ ID NO: 5 is N3; SEQ ID NO: 6 is D3; SEQ ID NO: 7 is N1; SEQ ID NO: 8 is D6; SEQ ID NO: 9 is D1; and SEQ ID NO: 10 is D2.

10   Figs. 8A and 8B list all publically available PDE4D2 mRNA's and novel eDNA segments identified by deCODE genetics.

DETAILED DESCRIPTION OF THE INVENTION

Extensive genealogical information for a population with population-based lists of patients has been combined with powerful genome sharing methods to map

15   the first major locus in common stroke. A genome wide scan on patients, related within 6 meiotic events, diagnosed with stroke (ischemic and TIA) and their unaffected relatives has been completed. Locus *STRK1* on chromosome 5q12 has been identified through linkage studies to be associated with stroke. This locus does not correspond to known susceptibility loci for stroke or its risk factors (such as

20   diabetes, hyperlipidemia and hypertension), and represents the first mapping of a gene for common stroke. Until now there have been no known linkage studies of stroke in humans showing any connection to this region of the chromosome. Based on the linkage studies conducted, Applicants have discovered a direct relationship between the PDE4D gene and stroke. Although the PDE4D gene (i.e., cDNA but

25   not the genomic sequence) from normal individuals is known, there have been no studies directly investigating PDE4D and stroke. Moreover, there have been no variant forms reported that have been associated with stroke. The full sequence of the PDE4D gene and splice variants are reported herein. Additional single nucleotide polymorphisms are reported in Tables 9 and 10 and may not be shown in

30   SEQ ID NO: 1.

NUCLEIC ACIDS OF THE INVENTION

Accordingly, the invention pertains to an isolated nucleic acid molecule comprising the human PDE4D gene having at least one nucleotide alteration and correlated with incidence of stroke. The term, "PDE4D or variant PDE4D", as used

5   herein, refers to an isolated nucleic acid molecule on chromosome 5q12 having at least one altered nucleotide that is associated with a susceptibility to a number of stroke phenotypes, and also to a portion or fragment of the isolated nucleic acid molecule (e.g., cDNA or the gene) that encodes PDE4D polypeptide (e.g., the polypeptide having SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, optionally

10   comprising at least one SNP as set forth in Tables 9 and 10, or another splicing variant of a PDE4D polypeptide). In a preferred embodiment, the isolated nucleic acid molecule comprises SEQ ID NO:1 (shown in Appendix I) or the complement thereof. In another embodiment, the isolated nucleic acid molecule comprises the sequence of SEQ ID NO: 1 or the complement of SEQ ID NO: 1, except that one or

15   more single nucleotide polymorphisms as shown in Tables 9 and 10 are also present. In another embodiment, the isolated nucleic acid molecules comprises exon 4D6, 4D7-1, 4D7-2, 4D7-3 and 4D8.

The isolated nucleic acid molecules of the present invention can be RNA, for example, mRNA, or DNA, such as cDNA and genomic DNA. DNA molecules can

20   be double-stranded or single-stranded; single stranded RNA or DNA can be either the coding, or sense, strand or the non-coding, or antisense, strand. The nucleic acid molecule can include all or a portion of the coding sequence of the gene and can further comprise additional non-coding sequences such as introns and non-coding 3' and 5' sequences (including regulatory sequences, for example). Additionally, the

25   nucleic acid molecule can be fused to a marker sequence, for example, a sequence that encodes a polypeptide to assist in isolation or purification of the polypeptide. Such sequences include, but are not limited to, those which encode a glutathione-S-transferase (GST) fusion protein and those which encode a hemagglutinin A (HA) polypeptide marker from influenza.

30   An "isolated" nucleic acid molecule, as used herein, is one that is separated from nucleic acids which normally flank the gene or nucleotide sequence (as in

genomic sequences) and/or has been completely or partially purified from other transcribed sequences (e.g., as in an RNA library). For example, an isolated nucleic acid of the invention may be substantially isolated with respect to the complex cellular milieu in which it naturally occurs, or culture medium when produced by

5   recombinant techniques, or chemical precursors or other chemicals when chemically synthesized. In some instances, the isolated material will form part of a composition (for example, a crude extract containing other substances), buffer system or reagent mix. In other circumstances, the material may be purified to essential homogeneity, for example as determined by PAGE or column chromatography such as HPLC.

10   Preferably, an isolated nucleic acid molecule comprises at least about 50, 80 or 90% (on a molar basis) of all macromolecular species present. With regard to genomic DNA, the term "isolated" also can refer to nucleic acid molecules which are separated from the chromosome with which the genomic DNA is naturally associated. For example, the isolated nucleic acid molecule can contain less than

15   about 5 kb, 4 kb, 3 kb, 2 kb, 1 kb, 0.5 kb or 0.1 kb of nucleotides which flank the nucleic acid molecule in the genomic DNA of the cell from which the nucleic acid molecule is derived.

The nucleic acid molecule can be fused to other coding or regulatory sequences and still be considered isolated. Thus, recombinant DNA contained in a

20   vector is included in the definition of "isolated" as used herein. Also, isolated nucleic acid molecules include recombinant DNA molecules in heterologous host cells, as well as partially or substantially purified DNA molecules in solution. "Isolated" nucleic acid molecules also encompass *in vivo* and *in vitro* RNA transcripts of the DNA molecules of the present invention. An isolated nucleic acid

25   molecule or nucleotide sequence can include a nucleic acid molecule or nucleotide sequence which is synthesized chemically or by recombinant means. Therefore, recombinant DNA contained in a vector are included in the definition of "isolated" as used herein. Also, isolated nucleotide sequences include recombinant DNA molecules in heterologous organisms, as well as partially or substantially purified

30   DNA molecules in solution. *In vivo* and *in vitro* RNA transcripts of the DNA molecules of the present invention are also encompassed by "isolated" nucleotide

sequences. Such isolated nucleotide sequences are useful in the manufacture of the encoded polypeptide, as probes for isolating homologous sequences (e.g., from other mammalian species), for gene mapping (e.g., by *in situ* hybridization with chromosomes), or for detecting expression of the gene in tissue (e.g., human tissue),

5   such as by Northern blot analysis.

The present invention also pertains to variant nucleic acid molecules which are not necessarily found in nature but which encode a PDE4D polypeptide (e.g., a polypeptide having the amino acid sequence of SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or another splicing variant of PDE4D polypeptide or polymorphic variant

10   thereof. Thus, for example, DNA molecules which comprise a sequence that is different from the naturally-occurring nucleotide sequence but which, due to the degeneracy of the genetic code, encode a PDE4D polypeptide of the present invention are also the subject of this invention. The invention also encompasses nucleotide sequences encoding portions (fragments), or encoding variant

15   polypeptides such as analogues or derivatives of the PDE4D polypeptide. Such variants can be naturally-occurring, such as in the case of allelic variation or single nucleotide polymorphisms, or non-naturally-occurring, such as those induced by various mutagens and mutagenic processes. Intended variations include, but are not limited to, addition, deletion and substitution of one or more nucleotides which can

20   result in conservative or non-conservative amino acid changes, including additions and deletions. Preferably the nucleotide (and/or resultant amino acid) changes are silent or conserved; that is, they do not alter the characteristics or activity of the PDE4D polypeptide. In one preferred embodiment, the nucleotide sequences are fragments that comprise one or more polymorphic microsatellite markers. In

25   another preferred embodiment, the nucleotide sequences are fragments that comprise one or more single nucleotide polymorphisms in the PDE4D gene.

Other alterations of the nucleic acid molecules of the invention can include, for example, labeling, methylation, internucleotide modifications such as uncharged linkages (e.g., methyl phosphonates, phosphotriesters, phosphoamidates,

30   carbamates), charged linkages (e.g., phosphorothioates, phosphorodithioates), pendent moieties (e.g., polypeptides), intercalators (e.g., acridine, psoralen),

chelators, alkylators, and modified linkages (e.g., alpha anomeric nucleic acids). Also included are synthetic molecules that mimic nucleic acid molecules in the ability to bind to a designated sequences via hydrogen bonding and other chemical interactions. Such molecules include, for example, those in which peptide linkages

5   substitute for phosphate linkages in the backbone of the molecule.

The invention also pertains to nucleic acid molecules which hybridize under high stringency hybridization conditions, such as for selective hybridization, to a nucleotide sequence described herein (e.g., nucleic acid molecules which specifically hybridize to a nucleotide sequence encoding polypeptides described

10   herein, and, optionally, have an activity of the polypeptide). In one embodiment, the invention includes variants described herein which hybridize under high stringency hybridization conditions (e.g., for selective hybridization) to a nucleotide sequence comprising a nucleotide sequence selected from SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Tables 9 and 10 or the

15   complement thereof. In another embodiment, the invention includes variants described herein which hybridize under high stringency hybridization conditions (e.g., for selective hybridization) to a nucleotide sequence encoding an amino acid sequence selected from SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14 or polymorphic variant thereof. In a preferred embodiment, the variant which

20   hybridizes under high stringency hybridizations has an activity of PDE4D.

Such nucleic acid molecules can be detected and/or isolated by specific hybridization (e.g., under high stringency conditions). "Specific hybridization," as used herein, refers to the ability of a first nucleic acid to hybridize to a second nucleic acid in a manner such that the first nucleic acid does not hybridize to any

25   nucleic acid other than to the second nucleic acid (e.g., when the first nucleic acid has a higher similarity to the second nucleic acid than to any other nucleic acid in a sample wherein the hybridization is to be performed). "Stringency conditions" for hybridization is a term of art which refers to the incubation and wash conditions, e.g., conditions of temperature and buffer concentration, which permit hybridization

30   of a particular nucleic acid to a second nucleic acid; the first nucleic acid may be perfectly (i.e., 100%) complementary to the second, or the first and second may

share some degree of complementarity which is less than perfect (e.g., 70%, 75%, 85%, 95%). For example, certain high stringency conditions can be used which distinguish perfectly complementary nucleic acids from those of less complementarity. "High stringency conditions", "moderate stringency conditions"

5 and "low stringency conditions" for nucleic acid hybridizations are explained on pages 2.10.1-2.10.16 and pages 6.3.1-6.3.6 in *Current Protocols in Molecular Biology* (Ausubel, F.M. *et al.*, *"Current Protocols in Molecular Biology"*, John Wiley & Sons, (1998), the entire teachings of which are incorporated by reference herein). The exact conditions which determine the stringency of hybridization

10 depend not only on ionic strength (e.g., 0.2XSSC, 0.1XSSC), temperature (e.g., room temperature, 42°C, 68°C) and the concentration of destabilizing agents such as formamide or denaturing agents such as SDS, but also on factors such as the length of the nucleic acid sequence, base composition, percent mismatch between hybridizing sequences and the frequency of occurrence of subsets of that sequence

15 within other non-identical sequences. Thus, equivalent conditions can be determined by varying one or more of these parameters while maintaining a similar degree of identity or similarity between the two nucleic acid molecules. Typically, conditions are used such that sequences at least about 60%, at least about 70%, at least about 80%, at least about 90% or at least about 95% or more identical to each other remain

20 hybridized to one another. By varying hybridization conditions from a level of stringency at which no hybridization occurs to a level at which hybridization is first observed, conditions which will allow a given sequence to hybridize (e.g., selectively) with the most similar sequences in the sample can be determined.

25   Exemplary conditions are described in Krause, M.H. and S.A. Aaronson, *Methods in Enzymology, 200*:546-556 (1991). Also, in, Ausubel, *et al.*, *"Current Protocols in Molecular Biology"*, John Wiley & Sons, (1998), which describes the determination of washing conditions for moderate or low stringency conditions. Washing is the step in which conditions are usually set so as to determine a

30 minimum level of complementarity of the hybrids. Generally, starting from the lowest temperature at which only homologous hybridization occurs, each °C by

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which the final wash temperature is reduced (holding SSC concentration constant)
allows an increase by 1% in the maximum extent of mismatching among the
sequences that hybridize. Generally, doubling the concentration of SSC results in an
increase in T_m of ~17°C. Using these guidelines, the washing temperature can be

5   determined empirically for high, moderate or low stringency, depending on the level
of mismatch sought.

For example, a low stringency wash can comprise washing in a solution
containing 0.2XSSC/0.1% SDS for 10 min at room temperature; a moderate
stringency wash can comprise washing in a prewarmed solution (42°C) solution

10   containing 0.2XSSC/0.1% SDS for 15 min at 42°C; and a high stringency wash can
comprise washing in prewarmed (68°C) solution containing 0.1XSSC/0.1%SDS for
15 min at 68°C. Furthermore, washes can be performed repeatedly or sequentially to
obtain a desired result as known in the art. Equivalent conditions can be determined
by varying one or more of the parameters given as an example, as known in the art,

15   while maintaining a similar degree of identity or similarity between the target
nucleic acid molecule and the primer or probe used.

The percent identity of two nucleotide or amino acid sequences can be
determined by aligning the sequences for optimal comparison purposes (*e.g.*, gaps
can be introduced in the sequence of a first sequence). The nucleotides or amino

20   acids at corresponding positions are then compared, and the percent identity between
the two sequences is a function of the number of identical positions shared by the
sequences (*i.e.*, % identity = # of identical positions/total # of positions x 100). In
certain embodiments, the length of a sequence aligned for comparison purposes is at
least 30%, preferably at least 40%, more preferably at least 60%, and even more

25   preferably at least 70%, 80%, 90% or 95% of the length of the reference sequence.
The actual comparison of the two sequences can be accomplished by well-known
methods, for example, using a mathematical algorithm. A preferred, non-limiting
example of such a mathematical algorithm is described in Karlin *et al.*, *Proc. Natl.
Acad. Sci. USA, 90*:5873-5877 (1993). Such an algorithm is incorporated into the

30   NBLAST and XBLAST programs (version 2.0) as described in Altschul *et al.*,
Nucleic Acids Res., 25:389-3402 (1997). When utilizing BLAST and Gapped

BLAST programs, the default parameters of the respective programs (*e.g.*,
NBLAST) can be used. See http://www.ncbi.nlm.nih.gov. In one embodiment,
parameters for sequence comparison can be set at score=100, wordlength=12, or can
be varied (*e.g.*, W=5 or W=20).

5   Another preferred, non-limiting example of a mathematical algorithm
utilized for the comparison of sequences is the algorithm of Myers and Miller,
CABIOS (1989). Such an algorithm is incorporated into the ALIGN program
(version 2.0) which is part of the GCG sequence alignment software package. When
utilizing the ALIGN program for comparing amino acid sequences, a PAM120
10   weight residue table, a gap length penalty of 12 , and a gap penalty of 4 can be used.
Additional algorithms for sequence analysis are known in the art and include
ADVANCE and ADAM as described in Torellis and Robotti (1994) *Comput. Appl.
Biosci., 10*:3-5; and FASTA described in Pearson and Lipman (1988) *PNAS,
85*:2444-8.

15   In another embodiment, the percent identity between two amino acid
sequences can be accomplished using the GAP program in the CGC software
package (available at http://www.cgc.com) using either a Blossom 63 matrix or a
PAM250 matrix, and a gap weight of 12, 10, 8, 6, or 4 and a length weight of 2, 3, or
4. In yet another embodiment, the percent identity between two nucleic acid
20   sequences can be accomplished using the GAP program in the GCG software
package (available at http://www.accelrys.com), using a gap weight of 50 and a
length weight of 3.

The present invention also provides isolated nucleic acid molecules that
contain a fragment or portion that hybridizes under highly stringent conditions to a
25   nucleotide sequence comprising a nucleotide sequence selected from SEQ ID NO: 1
which may optionally comprise at least one polymorphism as shown in Tables 9 and
10 and the complement thereof, and also provides isolated nucleic acid molecules
that contain a fragment or portion that hybridizes under highly stringent conditions
to a nucleotide sequence encoding an amino acid sequence selected from SEQ ID
30   NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or polymorphic variant thereof. The nucleic
acid fragments of the invention are at least about 15, preferably at least about 18, 20,

23 or 25 nucleotides, and can be 30, 40, 50, 100, 200 or more nucleotides in length. Longer fragments, for example, 30 or more nucleotides in length, which encode antigenic polypeptides described herein are particularly useful, such as for the generation of antibodies as described below.

5   In a related aspect, the nucleic acid fragments of the invention are used as probes or primers in assays such as those described herein. "Probes" or "primers" are oligonucleotides that hybridize in a base-specific manner to a complementary strand of nucleic acid molecules. Such probes and primers include polypeptide nucleic acids, as described in Nielsen *et al.*, *Science, 254*, 1497-1500 (1991).

10   Typically, a probe or primer comprises a region of nucleotide sequence that hybridizes to at least about 15, typically about 20-25, and more typically about 40, 50 or 75, consecutive nucleotides of a nucleic acid molecule comprising a contiguous nucleotide sequence selected from: SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Tables 9 and 10, the complement

15   thereof, or a sequence encoding an amino acid sequence selected from SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or polymorphic variant thereof. In preferred embodiments, a probe or primer comprises 100 or fewer nucleotides, preferably from 6 to 50 nucleotides, preferably from 12 to 30 nucleotides. In other embodiments, the probe or primer is at least 70% identical to the contiguous

20   nucleotide sequence or to the complement of the contiguous nucleotide sequence, preferably at least 80% identical, more preferably at least 90% identical, even more preferably at least 95% identical, or even capable of selectively hybridizing to the contiguous nucleotide sequence or to the complement of the contiguous nucleotide sequence. Often, the probe or primer further comprises a label, *e.g.*, radioisotope,

25   fluorescent compound, enzyme, or enzyme co-factor.

The nucleic acid molecules of the invention such as those described above can be identified and isolated using standard molecular biology techniques and the sequence information provided herein. For example, nucleic acid molecules can be amplified and isolated by the polymerase chain reaction using synthetic

30   oligonucleotide primers designed based on one or more of the sequences provided in SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in

Tables 9 and 10, and/or the complement thereof, or designed based on nucleotides based on sequences encoding one or more of the amino acid sequences provided herein. See generally *PCR Technology: Principles and Applications for DNA Amplification* (ed. H.A. Erlich, Freeman Press, NY, NY, 1992); *PCR Protocols: A*

5   *Guide to Methods and Applications* (Eds. Innis, *et al.*, Academic Press, San Diego, CA, 1990); Mattila *et al.*, *Nucleic Acids Res.*, *19*:4967 (1991); Eckert *et al.*, *PCR Methods and Applications*, *1*:17 (1991); PCR (eds. McPherson *et al.*, IRL Press, Oxford); and U.S. Patent 4,683,202. The nucleic acid molecules can be amplified using cDNA, mRNA or genomic DNA as a template, cloned into an appropriate

10 vector and characterized by DNA sequence analysis.

Other suitable amplification methods include the ligase chain reaction (LCR) (see Wu and Wallace, *Genomics*, *4*:560 (1989), Landegren *et al.*, *Science*, *241*:1077 (1988), transcription amplification (Kwoh *et al.*, *Proc. Natl. Acad. Sci. USA*, *86*:1173 (1989)), and self-sustained sequence replication (Guatelli *et al.*, *Proc. Nat.*

15 *Acad. Sci. USA*, *87*:1874 (1990)) and nucleic acid based sequence amplification (NASBA). The latter two amplification methods involve isothermal reactions based on isothermal transcription, which produce both single stranded RNA (ssRNA) and double stranded DNA (dsDNA) as the amplification products in a ratio of about 30 or 100 to 1, respectively.

20 The amplified DNA can be radiolabelled and used as a probe for screening a cDNA library derived from human cells, mRNA in zap express, ZIPLOX or other suitable vector. Corresponding clones can be isolated, DNA can obtained following *in vivo* excision, and the cloned insert can be sequenced in either or both orientations by art recognized methods to identify the correct reading frame encoding a

25 polypeptide of the appropriate molecular weight. For example, the direct analysis of the nucleotide sequence of nucleic acid molecules of the present invention can be accomplished using well-known methods that are commercially available. See, for example, Sambrook *et al.*, *Molecular Cloning, A Laboratory Manual* (2nd Ed., CSHP, New York 1989); Zyskind *et al.*, *Recombinant DNA Laboratory Manual*,

30 (Acad. Press, 1988)). Using these or similar methods, the polypeptide and the DNA encoding the polypeptide can be isolated, sequenced and further characterized.

Antisense nucleic acid molecules of the invention can be designed using the nucleotide sequences of SEQ ID NO: 1 and/or the complement of SEQ ID NO: 1, and/or a portion of SEQ ID NO:1 or the complement of SEQ ID NO:1 and/or a sequence encoding the amino acid sequences or SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10,

5   12 and/or 14, or encoding a portion of SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 and/or 14, (wherein any one of these may optionally comprise at least one polymorphism as shown in Tables 9 and 10) and constructed using chemical synthesis and enzymatic ligation reactions using procedures known in the art. For example, an antisense nucleic acid molecule (*e.g.*, an antisense oligonucleotide) can

10   be chemically synthesized using naturally occurring nucleotides or variously modified nucleotides designed to increase the biological stability of the molecules or to increase the physical stability of the duplex formed between the antisense and sense nucleic acids, *e.g.*, phosphorothioate derivatives and acridine substituted nucleotides can be used. Alternatively, the antisense nucleic acid molecule can be

15   produced biologically using an expression vector into which a nucleic acid molecule has been subcloned in an antisense orientation (*i.e.*, RNA transcribed from the inserted nucleic acid molecule will be of an antisense orientation to a target nucleic acid of interest).

In general, the isolated nucleic acid sequences of the invention can be used as

20   molecular weight markers on Southern gels, and as chromosome markers which are labeled to map related gene positions. The nucleic acid sequences can also be used to compare with endogenous DNA sequences in patients to identify genetic disorders (e.g., a predisposition for or susceptibility to stroke), and as probes, such as to hybridize and discover related DNA sequences or to subtract out known

25   sequences from a sample. The nucleic acid sequences can further be used to derive primers for genetic fingerprinting, to raise anti-polypeptide antibodies using DNA immunization techniques, and as an antigen to raise anti-DNA antibodies or elicit immune responses. Portions or fragments of the nucleotide sequences identified herein (and the corresponding complete gene sequences) can be used in numerous

30   ways as polynucleotide reagents. For example, these sequences can be used to: (i) map their respective genes on a chromosome; and, thus, locate gene regions

associated with genetic disease; (ii) identify an individual from a minute biological sample (tissue typing); and (iii) aid in forensic identification of a biological sample. Additionally, the nucleotide sequences of the invention can be used to identify and express recombinant polypeptides for analysis, characterization or therapeutic use, or

5   as markers for tissues in which the corresponding polypeptide is expressed, either constitutively, during tissue differentiation, or in diseased states. The nucleic acid sequences can additionally be used as reagents in the screening and/or diagnostic assays described herein, and can also be included as components of kits (e.g., reagent kits) for use in the screening and/or diagnostic assays described herein.

10   Another aspect of the invention pertains to nucleic acid constructs containing a nucleic acid molecule selected from the group consisting of SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10 and the complement thereof (or a portion thereof). Yet another aspect of the invention pertains to nucleic acid constructs containing a nucleic acid molecule encoding the

15   amino acid sequence of SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14 or polymorphic variant thereof. The constructs comprise a vector (e.g., an expression vector) into which a sequence of the invention has been inserted in a sense or antisense orientation. As used herein, the term "vector" refers to a nucleic acid molecule capable of transporting another nucleic acid to which it has been linked.

20   One type of vector is a "plasmid", which refers to a circular double stranded DNA loop into which additional DNA segments can be ligated. Another type of vector is a viral vector, wherein additional DNA segments can be ligated into the viral genome. Certain vectors are capable of autonomous replication in a host cell into which they are introduced (e.g., bacterial vectors having a bacterial origin of

25   replication and episomal mammalian vectors). Other vectors (e.g., non-episomal mammalian vectors) are integrated into the genome of a host cell upon introduction into the host cell, and thereby are replicated along with the host genome. Moreover, certain vectors, expression vectors, are capable of directing the expression of genes to which they are operably linked. In general, expression vectors of utility in

30   recombinant DNA techniques are often in the form of plasmids. However, the invention is intended to include such other forms of expression vectors, such as viral

vectors (*e.g.*, replication defective retroviruses, adenoviruses and adeno-associated viruses) that serve equivalent functions.

Preferred recombinant expression vectors of the invention comprise a nucleic acid molecule of the invention in a form suitable for expression of the nucleic acid

5   molecule in a host cell. This means that the recombinant expression vectors include one or more regulatory sequences, selected on the basis of the host cells to be used for expression, which is operably linked to the nucleic acid sequence to be expressed. Within a recombinant expression vector, "operably or operatively linked" is intended to mean that the nucleotide sequence of interest is linked to the

10   regulatory sequence(s) in a manner which allows for expression of the nucleotide sequence (*e.g.*, in an *in vitro* transcription/translation system or in a host cell when the vector is introduced into the host cell). The term "regulatory sequence" is intended to include promoters, enhancers and other expression control elements (*e.g.*, polyadenylation signals). Such regulatory sequences are described, for

15   example, in Goeddel, *Gene Expression Technology: Methods in Enzymology 185*, Academic Press, San Diego, CA (1990). Regulatory sequences include those which direct constitutive expression of a nucleotide sequence in many types of host cell and those which direct expression of the nucleotide sequence only in certain host cells (*e.g.*, tissue-specific regulatory sequences). It will be appreciated by those

20   skilled in the art that the design of the expression vector can depend on such factors as the choice of the host cell to be transformed and the level of expression of polypeptide desired. The expression vectors of the invention can be introduced into host cells to thereby produce polypeptides, including fusion polypeptides, encoded by nucleic acid molecules as described herein.

25   The recombinant expression vectors of the invention can be designed for expression of a polypeptide of the invention in prokaryotic or eukaryotic cells, *e.g.*, bacterial cells such as *E. coli*, insect cells (using baculovirus expression vectors), yeast cells or mammalian cells. Suitable host cells are discussed further in Goeddel, *supra*. Alternatively, the recombinant expression vector can be transcribed and

30   translated *in vitro*, for example using T7 promoter regulatory sequences and T7 polymerase.

Another aspect of the invention pertains to host cells into which a recombinant expression vector of the invention has been introduced. The terms "host cell" and "recombinant host cell" are used interchangeably herein. It is understood that such terms refer not only to the particular subject cell but also to the

5   progeny or potential progeny of such a cell. Because certain modifications may occur in succeeding generations due to either mutation or environmental influences, such progeny may not, in fact, be identical to the parent cell, but are still included within the scope of the term as used herein.

A host cell can be any prokaryotic or eukaryotic cell. For example, a nucleic

10   acid molecule of the invention can be expressed in bacterial cells (*e.g.*, *E. coli*), insect cells, yeast or mammalian cells (such as Chinese hamster ovary cells (CHO) or COS cells). Other suitable host cells are known to those skilled in the art.

Vector DNA can be introduced into prokaryotic or eukaryotic cells via conventional transformation or transfection techniques. As used herein, the terms

15   "transformation" and "transfection" are intended to refer to a variety of art-recognized techniques for introducing a foreign nucleic acid molecule (*e.g.*, DNA) into a host cell, including calcium phosphate or calcium chloride co-precipitation, DEAE-dextran-mediated transfection, lipofection, or electroporation. Suitable methods for transforming or transfecting host cells can be

20   found in Sambrook, *et al.* (*supra*), and other laboratory manuals.

For stable transfection of mammalian cells, it is known that, depending upon the expression vector and transfection technique used, only a small fraction of cells may integrate the foreign DNA into their genome. In order to identify and select these integrants, a gene that encodes a selectable marker (*e.g.*, for resistance to

25   antibiotics) is generally introduced into the host cells along with the gene of interest. Preferred selectable markers include those that confer resistance to drugs, such as G418, hygromycin and methotrexate. Nucleic acid molecules encoding a selectable marker can be introduced into a host cell on the same vector as the nucleic acid molecule of the invention or can be introduced on a separate vector. Cells stably

30   transfected with the introduced nucleic acid molecule can be identified by drug

selection (*e.g.*, cells that have incorporated the selectable marker gene will survive, while the other cells die).

A host cell of the invention, such as a prokaryotic or eukaryotic host cell in culture, can be used to produce (*i.e.*, express) a polypeptide of the invention.

5 Accordingly, the invention further provides methods for producing a polypeptide using the host cells of the invention. In one embodiment, the method comprises culturing the host cell of invention (into which a recombinant expression vector encoding a polypeptide of the invention has been introduced) in a suitable medium such that the polypeptide is produced. In another embodiment, the method further

10 comprises isolating the polypeptide from the medium or the host cell.

The host cells of the invention can also be used to produce nonhuman transgenic animals. For example, in one embodiment, a host cell of the invention is a fertilized oocyte or an embryonic stem cell into which a nucleic acid molecule of the invention has been introduced (e.g., an exogenous PDE4D gene, or an exogenous

15 nucleic acid encoding PDE4D polypeptide). Such host cells can then be used to create non-human transgenic animals in which exogenous nucleotide sequences have been introduced into the genome or homologous recombinant animals in which endogenous nucleotide sequences have been altered. Such animals are useful for studying the function and/or activity of the nucleotide sequence and polypeptide

20 encoded by the sequence and for identifying and/or evaluating modulators of their activity. As used herein, a "transgenic animal" is a non-human animal, preferably a mammal, more preferably a rodent such as a rat or mouse, in which one or more of the cells of the animal includes a transgene. Other examples of transgenic animals include non-human primates, sheep, dogs, cows, goats, chickens and amphibians. A

25 transgene is exogenous DNA which is integrated into the genome of a cell from which a transgenic animal develops and which remains in the genome of the mature animal, thereby directing the expression of an encoded gene product in one or more cell types or tissues of the transgenic animal. As used herein, an "homologous recombinant animal" is a non-human animal, preferably a mammal, more preferably

30 a mouse, in which an endogenous gene has been altered by homologous recombination between the endogenous gene and an exogenous DNA molecule

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introduced into a cell of the animal, *e.g.*, an embryonic cell of the animal, prior to
development of the animal.

  Methods for generating transgenic animals via embryo manipulation and
microinjection, particularly animals such as mice, have become conventional in the
5 art and are described, for example, in U.S. Patent Nos. 4,736,866 and 4,870,009,
U.S. Patent No. 4,873,191 and in Hogan, *Manipulating the Mouse Embryo* (Cold
Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1986). Methods for
constructing homologous recombination vectors and homologous recombinant
animals are described further in Bradley (1991) *Current Opinion in Bio/Technology,*
10 *2*:823-829 and in PCT Publication Nos. WO 90/11354, WO 91/01140, WO 92/0968,
and WO 93/04169. Clones of the non-human transgenic animals described herein
can also be produced according to the methods described in Wilmut *et al.* (1997)
Nature, 385:810-813 and PCT Publication Nos. WO 97/07668 and WO 97/07669.

POLYPEPTIDES OF THE INVENTION

15 The present invention also pertains to isolated polypeptides encoded by
PDE4D ("PDE4D polypeptides") and fragments and variants thereof, as well as
polypeptides encoded by nucleotide sequences described herein (e.g., other splicing
variants). The term "polypeptide" refers to a polymer of amino acids, and not to a
specific length; thus, peptides, oligopeptides and proteins are included within the
20 definition of a polypeptide. As used herein, a polypeptide is said to be "isolated" or
"purified" when it is substantially free of cellular material when it is isolated from
recombinant and non-recombinant cells, or free of chemical precursors or other
chemicals when it is chemically synthesized. A polypeptide, however, can be joined
to another polypeptide with which it is not normally associated in a cell (e.g., in a
25 "fusion protein") and still be "isolated" or "purified."

  The polypeptides of the invention can be purified to homogeneity. It is
understood, however, that preparations in which the polypeptide is not purified to
homogeneity are useful. The critical feature is that the preparation allows for the
desired function of the polypeptide, even in the presence of considerable amounts of
30 other components. Thus, the invention encompasses various degrees of purity. In

one embodiment, the language "substantially free of cellular material" includes preparations of the polypeptide having less than about 30% (by dry weight) other proteins (*i.e.*, contaminating protein), less than about 20% other proteins, less than about 10% other proteins, or less than about 5% other proteins.

5   When a polypeptide is recombinantly produced, it can also be substantially free of culture medium, *i.e.*, culture medium represents less than about 20%, less than about 10%, or less than about 5% of the volume of the polypeptide preparation. The language "substantially free of chemical precursors or other chemicals" includes preparations of the polypeptide in which it is separated from chemical precursors or

10   other chemicals that are involved in its synthesis. In one embodiment, the language "substantially free of chemical precursors or other chemicals" includes preparations of the polypeptide having less than about 30% (by dry weight) chemical precursors or other chemicals, less than about 20% chemical precursors or other chemicals, less than about 10% chemical precursors or other chemicals, or less than about 5%

15   chemical precursors or other chemicals.

       In one embodiment, a polypeptide of the invention comprises an amino acid sequence encoded by a nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10 and complements and portions

20   thereof, e.g., SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or a portion or polymorphic variant thereof. However, the polypeptides of the invention also encompass fragment and sequence variants. Variants include a substantially homologous polypeptide encoded by the same genetic locus in an organism, *i.e.*, an allelic variant, as well as other splicing variants. Variants also encompass

25   polypeptides derived from other genetic loci in an organism, but having substantial homology to a polypeptide encoded by a nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10 and complements and portions thereof, or having substantial homology to a polypeptide

30   encoded by a nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of nucleotide sequences encoding SEQ ID NO: 2, 3, 4, 5, 6, 7,

8, 9, 10, 12 or 14, or polymorphic variants thereof. Variants also include polypeptides substantially homologous or identical to these polypeptides but derived from another organism, *i.e.*, an ortholog. Variants also include polypeptides that are substantially homologous or identical to these polypeptides that are produced by

5   chemical synthesis. Variants also include polypeptides that are substantially homologous or identical to these polypeptides that are produced by recombinant methods.

As used herein, two polypeptides (or a region of the polypeptides) are substantially homologous or identical when the amino acid sequences are at least

10   about 45-55%, typically at least about 70-75%, more typically at least about 80-85%, and most typically greater than about 90% or more homologous or identical. A substantially homologous amino acid sequence, according to the present invention, will be encoded by a nucleic acid molecule hybridizing to SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10, or portion

15   thereof, under stringent conditions as more particularly described above, or will be encoded by a nucleic acid molecule hybridizing to a nucleic acid sequence encoding SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, portion thereof or polymorphic variant thereof, under stringent conditions as more particularly described thereof.

To determine the percent homology or identity of two amino acid sequences,

20   or of two nucleic acid sequences, the sequences are aligned for optimal comparison purposes (*e.g.*, gaps can be introduced in the sequence of one polypeptide or nucleic acid molecule for optimal alignment with the other polypeptide or nucleic acid molecule). The amino acid residues or nucleotides at corresponding amino acid positions or nucleotide positions are then compared. When a position in one

25   sequence is occupied by the same amino acid residue or nucleotide as the corresponding position in the other sequence, then the molecules are homologous at that position. As used herein, amino acid or nucleic acid "homology" is equivalent to amino acid or nucleic acid "identity". The percent homology between the two sequences is a function of the number of identical positions shared by the sequences

30   (*i.e.*, percent homology equals the number of identical positions/total number of positions times 100).

The invention also encompasses polypeptides having a lower degree of identity but having sufficient similarity so as to perform one or more of the same functions performed by a polypeptide encoded by a nucleic acid molecule of the invention. Similarity is determined by conserved amino acid substitution. Such

5   substitutions are those that substitute a given amino acid in a polypeptide by another amino acid of like characteristics. Conservative substitutions are likely to be phenotypically silent. Typically seen as conservative substitutions are the replacements, one for another, among the aliphatic amino acids Ala, Val, Leu and Ile; interchange of the hydroxyl residues Ser and Thr, exchange of the acidic

10   residues Asp and Glu, substitution between the amide residues Asn and Gln, exchange of the basic residues Lys and Arg and replacements among the aromatic residues Phe and Tyr. Guidance concerning which amino acid changes are likely to be phenotypically silent are found in Bowie *et al., Science 247*:1306-1310 (1990).

A variant polypeptide can differ in amino acid sequence by one or more

15   substitutions, deletions, insertions, inversions, fusions, and truncations or a combination of any of these. Further, variant polypeptides can be fully functional or can lack function in one or more activities. Fully functional variants typically contain only conservative variation or variation in non-critical residues or in non-critical regions. Functional variants can also contain substitution of similar

20   amino acids that result in no change or an insignificant change in function. Alternatively, such substitutions may positively or negatively affect function to some degree. Non-functional variants typically contain one or more non-conservative amino acid substitutions, deletions, insertions, inversions, or truncation or a substitution, insertion, inversion, or deletion in a critical residue or critical region.

25   Amino acids that are essential for function can be identified by methods known in the art, such as site-directed mutagenesis or alanine-scanning mutagenesis (Cunningham *et al., Science, 244*:1081-1085 (1989)). The latter procedure introduces single alanine mutations at every residue in the molecule. The resulting mutant molecules are then tested for biological activity *in vitro*, or *in vitro*

30   proliferative activity. Sites that are critical for polypeptide activity can also be determined by structural analysis such as crystallization, nuclear magnetic resonance

or photoaffinity labeling (Smith *et al.*, *J. Mol. Biol.*, *224*:899-904 (1992); de Vos *et al.*, *Science, 255*:306-312 (1992)).

The invention also includes polypeptide fragments of the polypeptides of the invention. Fragments can be derived from a polypeptide encoded by a nucleic acid

5 molecule comprising SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10 or a portion thereof and the complements thereof (e.g., SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or other splicing variants). However, the invention also encompasses fragments of the variants of the polypeptides described herein. As used herein, a fragment comprises at least 6

10 contiguous amino acids. Useful fragments include those that retain one or more of the biological activities of the polypeptide as well as fragments that can be used as an immunogen to generate polypeptide-specific antibodies.

Biologically active fragments (peptides which are, for example, 6, 9, 12, 15, 16, 20, 30, 35, 36, 37, 38, 39, 40, 50, 100 or more amino acids in length) can

15 comprise a domain, segment, or motif that has been identified by analysis of the polypeptide sequence using well-known methods, *e.g.*, signal peptides, extracellular domains, one or more transmembrane segments or loops, ligand binding regions, zinc finger domains, DNA binding domains, acylation sites, glycosylation sites, or phosphorylation sites.

20 Fragments can be discrete (not fused to other amino acids or polypeptides) or can be within a larger polypeptide. Further, several fragments can be comprised within a single larger polypeptide. In one embodiment a fragment designed for expression in a host can have heterologous pre- and pro-polypeptide regions fused to the amino terminus of the polypeptide fragment and an additional region fused to the

25 carboxyl terminus of the fragment.

The invention thus provides chimeric or fusion polypeptides. These comprise a polypeptide of the invention operatively linked to a heterologous protein or polypeptide having an amino acid sequence not substantially homologous to the polypeptide. "Operatively linked" indicates that the polypeptide and the

30 heterologous protein are fused in-frame. The heterologous protein can be fused to the N-terminus or C-terminus of the polypeptide. In one embodiment the fusion

polypeptide does not affect function of the polypeptide *per se*. For example, the
fusion polypeptide can be a GST-fusion polypeptide in which the polypeptide
sequences are fused to the C-terminus of the GST sequences. Other types of fusion
polypeptides include, but are not limited to, enzymatic fusion polypeptides, for

5   example β-galactosidase fusions, yeast two-hybrid GAL fusions, poly-His fusions
and Ig fusions. Such fusion polypeptides, particularly poly-His fusions, can
facilitate the purification of recombinant polypeptide. In certain host cells (*e.g.*,
mammalian host cells), expression and/or secretion of a polypeptide can be
increased by using a heterologous signal sequence. Therefore, in another

10   embodiment, the fusion polypeptide contains a heterologous signal sequence at its
N-terminus.

EP-A-O 464 533 discloses fusion proteins comprising various portions of
immunoglobulin constant regions. The Fc is useful in therapy and diagnosis and
thus results, for example, in improved pharmacokinetic properties (EP-A 0232 262).

15   In drug discovery, for example, human proteins have been fused with Fc portions for
the purpose of high-throughput screening assays to identify antagonists. Bennett *et
al.*, *Journal of Molecular Recognition*, 8:52-58 (1995) and Johanson *et al.*, *The
Journal of Biological Chemistry*, 270,16:9459-9471 (1995). Thus, this invention
also encompasses soluble fusion polypeptides containing a polypeptide of the

20   invention and various portions of the constant regions of heavy or light chains of
immunoglobulins of various subclass (IgG, IgM, IgA, IgE).

A chimeric or fusion polypeptide can be produced by standard recombinant
DNA techniques. For example, DNA fragments coding for the different polypeptide
sequences are ligated together in-frame in accordance with conventional techniques.

25   In another embodiment, the fusion gene can be synthesized by conventional
techniques including automated DNA synthesizers. Alternatively, PCR amplification
of nucleic acid fragments can be carried out using anchor primers which give rise to
complementary overhangs between two consecutive nucleic acid fragments which
can subsequently be annealed and re-amplified to generate a chimeric nucleic acid

30   sequence (see Ausubel *et al.*, *Current Protocols in Molecular Biology*, 1992).
Moreover, many expression vectors are commercially available that already encode a

fusion moiety (*e.g.*, a GST protein). A nucleic acid molecule encoding a polypeptide of the invention can be cloned into such an expression vector such that the fusion moiety is linked in-frame to the polypeptide.

The isolated polypeptide can be purified from cells that naturally express it,
5   purified from cells that have been altered to express it (recombinant), or synthesized using known protein synthesis methods. In one embodiment, the polypeptide is produced by recombinant DNA techniques. For example, a nucleic acid molecule encoding the polypeptide is cloned into an expression vector, the expression vector introduced into a host cell and the polypeptide expressed in the host cell. The
10   polypeptide can then be isolated from the cells by an appropriate purification scheme using standard protein purification techniques.

In general, polypeptides of the present invention can be used as a molecular weight marker on SDS-PAGE gels or on molecular sieve gel filtration columns using art-recognized methods. The polypeptides of the present invention can be
15   used to raise antibodies or to elicit an immune response. The polypeptides can also be used as a reagent, *e.g.*, a labeled reagent, in assays to quantitatively determine levels of the polypeptide or a molecule to which it binds (*e.g.*, a receptor or a ligand) in biological fluids. The polypeptides can also be used as markers for cells or tissues in which the corresponding polypeptide is preferentially expressed, either
20   constitutively, during tissue differentiation, or in a diseased state. The polypeptides can be used to isolate a corresponding binding agent, *e.g.*, receptor or ligand, such as, for example, in an interaction trap assay, and to screen for peptide or small molecule antagonists or agonists of the binding interaction.

ANTIBODIES OF THE INVENTION
25   Polyclonal and/or monoclonal antibodies that specifically bind one form of the gene product but not to the other form of the gene product are also provided. Antibodies are also provided that bind a portion of either the variant or the reference gene product that contains the polymorphic site or sites. The invention provides antibodies to the polypeptides and polypeptide fragments of the invention, *e.g.*,
30   having an amino acid sequence encoded by SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12

or 14, or a portion thereof, or having an amino acid sequence encoded by a nucleic acid molecule comprising all or a portion of SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10 (e.g., SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or another splicing variant or portion thereof). The term "antibody" as used herein refers to immunoglobulin molecules and immunologically active portions of immunoglobulin molecules, *i.e.*, molecules that contain an antigen binding site that specifically binds an antigen. A molecule that specifically binds to a polypeptide of the invention is a molecule that binds to that polypeptide or a fragment thereof, but does not substantially bind other molecules in a sample, *e.g.*, a biological sample, which naturally contains the polypeptide. Examples of immunologically active portions of immunoglobulin molecules include F(ab) and F(ab')₂ fragments which can be generated by treating the antibody with an enzyme such as pepsin. The invention provides polyclonal and monoclonal antibodies that bind to a polypeptide of the invention. The term "monoclonal antibody" or "monoclonal antibody composition", as used herein, refers to a population of antibody molecules that contain only one species of an antigen binding site capable of immunoreacting with a particular epitope of a polypeptide of the invention. A monoclonal antibody composition thus typically displays a single binding affinity for a particular polypeptide of the invention with which it immunoreacts.

Polyclonal antibodies can be prepared as described above by immunizing a suitable subject with a desired immunogen, *e.g.*, polypeptide of the invention or fragment thereof. The antibody titer in the immunized subject can be monitored over time by standard techniques, such as with an enzyme linked immunosorbent assay (ELISA) using immobilized polypeptide. If desired, the antibody molecules directed against the polypeptide can be isolated from the mammal (*e.g.*, from the blood) and further purified by well-known techniques, such as protein A chromatography to obtain the IgG fraction. At an appropriate time after immunization, *e.g.*, when the antibody titers are highest, antibody-producing cells can be obtained from the subject and used to prepare monoclonal antibodies by standard techniques, such as the hybridoma technique originally described by Kohler

and Milstein (1975) *Nature, 256*:495-497, the human B cell hybridoma technique
(Kozbor *et al.* (1983) *Immunol. Today, 4*:72), the EBV-hybridoma technique (Cole
et al. (1985), *Monoclonal Antibodies and Cancer Therapy*, Alan R. Liss, Inc., pp.
77-96) or trioma techniques. The technology for producing hybridomas is well

5   known (see generally *Current Protocols in Immunology* (1994) Coligan *et al.* (eds.)
John Wiley & Sons, Inc., New York, NY). Briefly, an immortal cell line (typically a
myeloma) is fused to lymphocytes (typically splenocytes) from a mammal
immunized with an immunogen as described above, and the culture supernatants of
the resulting hybridoma cells are screened to identify a hybridoma producing a

10   monoclonal antibody that binds a polypeptide of the invention.

Any of the many well known protocols used for fusing lymphocytes and
immortalized cell lines can be applied for the purpose of generating a monoclonal
antibody to a polypeptide of the invention (see, *e.g., Current Protocols in
Immunology, supra*; Galfre *et al.* (1977) *Nature, 266*:55052; R.H. Kenneth, in

15   *Monoclonal Antibodies: A New Dimension In Biological Analyses*, Plenum
Publishing Corp., New York, New York (1980); and Lerner (1981) *Yale J. Biol.
Med., 54*:387-402. Moreover, the ordinarily skilled worker will appreciate that there
are many variations of such methods that also would be useful.

Alternative to preparing monoclonal antibody-secreting hybridomas, a

20   monoclonal antibody to a polypeptide of the invention can be identified and isolated
by screening a recombinant combinatorial immunoglobulin library (*e.g.*, an antibody
phage display library) with the polypeptide to thereby isolate immunoglobulin
library members that bind the polypeptide. Kits for generating and screening phage
display libraries are commercially available (*e.g.*, the Pharmacia *Recombinant Phage

25   Antibody System*, Catalog No. 27-9400-01; and the Stratagene *Surf*ZAP™ Phage
Display Kit, Catalog No. 240612). Additionally, examples of methods and reagents
particularly amenable for use in generating and screening antibody display library
can be found in, for example, U.S. Patent No. 5,223,409; PCT Publication No. WO
92/18619; PCT Publication No. WO 91/17271; PCT Publication No. WO 92/20791;

30   PCT Publication No. WO 92/15679; PCT Publication No. WO 93/01288; PCT
Publication No. WO 92/01047; PCT Publication No. WO 92/09690; PCT

Publication No. WO 90/02809; Fuchs *et al.* (1991) *Bio/Technology, 9*:1370-1372;
Hay *et al.* (1992) *Hum. Antibod. Hybridomas, 3*:81-85; Huse *et al.* (1989) *Science, 246*:1275-1281; Griffiths *et al.* (1993) *EMBO J., 12*:725-734.

Additionally, recombinant antibodies, such as chimeric and humanized
5   monoclonal antibodies, comprising both human and non-human portions, which can
be made using standard recombinant DNA techniques, are within the scope of the
invention. Such chimeric and humanized monoclonal antibodies can be produced by
recombinant DNA techniques known in the art.

In general, antibodies of the invention (*e.g.*, a monoclonal antibody) can be
10   used to isolate a polypeptide of the invention by standard techniques, such as affinity
chromatography or immunoprecipitation. A polypeptide-specific antibody can
facilitate the purification of natural polypeptide from cells and of recombinantly
produced polypeptide expressed in host cells. Moreover, an antibody specific for a
polypeptide of the invention can be used to detect the polypeptide (*e.g.*, in a cellular
15   lysate, cell supernatant, or tissue sample) in order to evaluate the abundance and
pattern of expression of the polypeptide. Antibodies can be used diagnostically to
monitor protein levels in tissue as part of a clinical testing procedure, *e.g.*, to, for
example, determine the efficacy of a given treatment regimen. Detection can be
facilitated by coupling the antibody to a detectable substance. Examples of
20   detectable substances include various enzymes, prosthetic groups, fluorescent
materials, luminescent materials, bioluminescent materials, and radioactive
materials. Examples of suitable enzymes include horseradish peroxidase, alkaline
phosphatase, β-galactosidase, or acetylcholinesterase; examples of suitable
prosthetic group complexes include streptavidin/biotin and avidin/biotin; examples
25   of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein
isothiocyanate, rhodamine, dichlorotriazinylamine fluorescein, dansyl chloride or
phycoerythrin; an example of a luminescent material includes luminol; examples of
bioluminescent materials include luciferase, luciferin, and aequorin, and examples of
suitable radioactive material include 125I, 131I, 35S or 3H.

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DIAGNOSTIC AND SCREENING ASSAYS OF THE INVENTION

The present invention also pertains to a method of diagnosing or aiding in the diagnosis of stroke associated with the presence of the PDE4D gene or gene product in an individual. Diagnostic assays can be designed for assessing PDE4D gene

5   expression, or for assessing activity of PDE4D polypeptides of the invention. In one embodiment, the assays are used in the context of a biological sample (*e.g.*, blood, serum, cells, tissue) to thereby determine whether an individual is afflicted with stroke, or is at risk for (has a predisposition for or a susceptibility to) developing stroke. The invention also provides for prognostic (or predictive) assays for

10   determining whether an individual is susceptible to developing stroke. For example, mutations in the gene can be assayed in a biological sample. Such assays can be used for prognostic or predictive purpose to thereby prophylactically treat an individual prior to the onset of symptoms associated with stroke. Another aspect of the invention pertains to assays for monitoring the influence of agents (e.g., drugs,

15   compounds or other agents) on the gene expression or activity of polypeptides of the invention, as well as to assays for identifying agents which bind to PDE4D polypeptides. These and other assays and agents are described in further detail in the following sections.

DIAGNOSTIC ASSAYS

20   The nucleic acids, probes, primers, polypeptides and antibodies described herein can be used in methods of diagnosis of a susceptibility to stroke, as well as in kits useful for diagnosis of a susceptibility to stroke.

In one embodiment of the invention, diagnosis of a susceptibility to stroke is made by detecting a polymorphism in PDE4D as described herein. The

25   polymorphism can be a mutation in PDE4D, such as the insertion or deletion of a single nucleotide, or of more than one nucleotide, resulting in a frame shift mutation; the change of at least one nucleotide, resulting in a change in the encoded amino acid; the change of at least one nucleotide, resulting in the generation of a premature stop codon; the deletion of several nucleotides, resulting in a deletion of one or more

30   amino acids encoded by the nucleotides; the insertion of one or several nucleotides,

such as by unequal recombination or gene conversion, resulting in an interruption of
the coding sequence of the gene; duplication of all or a part of the gene;
transposition of all or a part of the gene; or rearrangement of all or a part of the gene.
More than one such mutation may be present in a single gene. Such sequence

5   changes cause a mutation in the polypeptide encoded by a PDE4D gene. For
example, if the mutation is a frame shift mutation, the frame shift can result in a
change in the encoded amino acids, and/or can result in the generation of a
premature stop codon, causing generation of a truncated polypeptide. Alternatively,
a polymorphism associated with a susceptibility to stroke can be a synonymous

10   mutation in one or more nucleotides (i.e., a mutation that does not result in a change
in the polypeptide encoded by a PDE4D gene). Such a polymorphism may alter
splicing sites, affect the stability or transport of mRNA, or otherwise affect the
transcription or translation of the gene. A PDE4D gene that has any of the mutations
described above is referred to herein as a "mutant gene."

15   In a first method of diagnosing a susceptibility to stroke, hybridization
methods, such as Southern analysis, Northern analysis, or *in situ* hybridizations, can
be used (see Current Protocols in Molecular Biology, Ausubel, F. *et al.*, eds., John
Wiley & Sons, including all supplements through 1999). For example, a biological
sample from a test subject (a "test sample") of genomic DNA, RNA, or cDNA, is

20   obtained from an individual suspected of having, being susceptible to or predisposed
for, or carrying a defect for, stroke (the "test individual"). The individual can be an
adult, child, or fetus. The test sample can be from any source which contains
genomic DNA, such as a blood sample, sample of amniotic fluid, sample of
cerebrospinal fluid, or tissue sample from skin, muscle, buccal or conjunctival

25   mucosa, placenta, gastrointestinal tract or other organs. A test sample of DNA from
fetal cells or tissue can be obtained by appropriate methods, such as by
amniocentesis or chorionic villus sampling. The DNA, RNA, or cDNA sample is
then examined to determine whether a polymorphism in *PDE4D* is present, and/or to
determine which splicing variant(s) encoded by PDE4D is present. The presence of

30   the polymorphism or splicing variant(s) can be indicated by hybridization of the
gene in the genomic DNA, RNA, or cDNA to a nucleic acid probe. A "nucleic acid

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probe", as used herein, can be a DNA probe or an RNA probe; the nucleic acid
probe can contain at least one polymorphism in PDE4D or contains a nucleic acid
encoding a particular splicing variant of PDE4D. The probe can be any of the
nucleic acid molecules described above (e.g., the gene, a fragment, a vector
5   comprising the gene, a probe or primer, etc.).

To diagnose a susceptibility to stroke, a hybridization sample is formed by
contacting the test sample containing PDE4D, with at least one nucleic acid probe.
A preferred probe for detecting mRNA or genomic DNA is a labeled nucleic acid
probe capable of hybridizing to mRNA or genomic DNA sequences described
10   herein. The nucleic acid probe can be, for example, a full-length nucleic acid
molecule, or a portion thereof, such as an oligonucleotide of at least 15, 30, 50, 100,
250 or 500 nucleotides in length and sufficient to specifically hybridize under
stringent conditions to appropriate mRNA or genomic DNA. For example, the
nucleic acid probe can be all or a portion of SEQ ID NO: 1 which may optionally
15   comprise at least one polymorphism shown in Tables 9 and 10 , or the complement
thereof, or a portion thereof; or can be a nucleic acid encoding a portion of SEQ ID
NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14. Other suitable probes for use in the diagnostic
assays of the invention are described above (see e.g., probes and primers discussed
under the heading, "Nucleic Acids of the Invention").

20   The hybridization sample is maintained under conditions which are sufficient
to allow specific hybridization of the nucleic acid probe to PDE4D. "Specific
hybridization", as used herein, indicates exact hybridization (e.g., with no
mismatches). Specific hybridization can be performed under high stringency
conditions or moderate stringency conditions, for example, as described above. In a
25   particularly preferred embodiment, the hybridization conditions for specific
hybridization are high stringency.

Specific hybridization, if present, is then detected using standard methods. If
specific hybridization occurs between the nucleic acid probe and PDE4D in the test
sample, then PDE4D has the polymorphism, or is the splicing variant, that is present
30   in the nucleic acid probe. More than one nucleic acid probe can also be used
concurrently in this method. Specific hybridization of any one of the nucleic acid

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probes is indicative of a polymorphism in PDE4D, or of the presence of a particular splicing variant encoding PDE4D and is therefore diagnostic for a susceptibility to stroke.

In Northern analysis (see Current Protocols in Molecular Biology, Ausubel,

5   F. *et al.*, eds., John Wiley & Sons, *supra*) the hybridization methods described above are used to identify the presence of a polymorphism or a particular splicing variant, associated with a susceptibility to stroke. For Northern analysis, a test sample of RNA is obtained from the individual by appropriate means. Specific hybridization of a nucleic acid probe, as described above, to RNA from the individual is indicative

10   of a polymorphism in PDE4D, or of the presence of a particular splicing variant encoded by PDE4D, and is therefore diagnostic for a susceptibility to stroke.

For representative examples of use of nucleic acid probes, see, for example, U.S. Patents No. 5,288,611 and 4,851,330.

Alternatively, a peptide nucleic acid (PNA) probe can be used instead of a

15   nucleic acid probe in the hybridization methods described above. PNA is a DNA mimic having a peptide-like, inorganic backbone, such as N-(2-aminoethyl)glycine units, with an organic base (A, G, C, T or U) attached to the glycine nitrogen via a methylene carbonyl linker (see, for example, Nielsen, P.E. *et al., Bioconjugate Chemistry*, 1994, 5, American Chemical Society, p. 1 (1994). The PNA probe can

20   be designed to specifically hybridize to a gene having a polymorphism associated with a susceptibility to stroke. Hybridization of the PNA probe to PDE4D is diagnostic for a susceptibility to stroke.

In another method of the invention, mutation analysis by restriction digestion can be used to detect a mutant gene, or genes containing a polymorphism(s), if the

25   mutation or polymorphism in the gene results in the creation or elimination of a restriction site. A test sample containing genomic DNA is obtained from the individual. Polymerase chain reaction (PCR) can be used to amplify PDE4D (and, if necessary, the flanking sequences) in the test sample of genomic DNA from the test individual. RFLP analysis is conducted as described (see Current Protocols in

30   Molecular Biology, *supra*). The digestion pattern of the relevant DNA fragment

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indicates the presence or absence of the mutation or polymorphism in PDE4D, and
therefore indicates the presence or absence of this susceptibility to stroke.

Sequence analysis can also be used to detect specific polymorphisms in
PDE4D. A test sample of DNA or RNA is obtained from the test individual. PCR
5   or other appropriate methods can be used to amplify the gene, and/or its flanking
sequences, if desired. The sequence of PDE4D, or a fragment of the gene, or cDNA,
or fragment of the cDNA, or mRNA, or fragment of the mRNA, is determined, using
standard methods. The sequence of the gene, gene fragment, cDNA, cDNA
fragment, mRNA, or mRNA fragment is compared with the known nucleic acid
10   sequence of the gene, cDNA (e.g., SEQ ID NO:1 which may optionally comprise at
least one polymorphism shown in Tables 9 and 10, or a nucleic acid sequence
encoding SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or a fragment thereof) or
mRNA, as appropriate. The presence of a polymorphism in PDE4D indicates that
the individual has a susceptibility to stroke.

15   Allele-specific oligonucleotides can also be used to detect the presence of a
polymorphism in PDE4D, through the use of dot-blot hybridization of amplified
oligonucleotides with allele-specific oligonucleotide (ASO) probes (see, for
example, Saiki, R. *et al.*, (1986), *Nature (London) 324*:163-166). An "allele-specific
oligonucleotide" (also referred to herein as an "allele-specific oligonucleotide
20   probe") is an oligonucleotide of approximately 10-50 base pairs, preferably
approximately 15-30 base pairs, that specifically hybridizes to PDE4D, and that
contains a polymorphism associated with a susceptibility to stroke. An allele-
specific oligonucleotide probe that is specific for particular polymorphisms in
PDE4D can be prepared, using standard methods (see Current Protocols in
25   Molecular Biology, *supra*). To identify polymorphisms in the gene that are
associated with a susceptibility to stroke, a test sample of DNA is obtained from the
individual. PCR can be used to amplify all or a fragment of PDE4D, and its
flanking sequences. The DNA containing the amplified PDE4D (or fragment of the
gene) is dot-blotted, using standard methods (see Current Protocols in Molecular
30   Biology, *supra*), and the blot is contacted with the oligonucleotide probe. The
presence of specific hybridization of the probe to the amplified PDE4D is then

detected. Specific hybridization of an allele-specific oligonucleotide probe to DNA from the individual is indicative of a polymorphism in PDE4D, and is therefore indicative of a susceptibility to stroke.

In another embodiment, arrays of oligonucleotide probes that are
5   complementary to target nucleic acid sequence segments from an individual, can be used to identify polymorphisms in PDE4D. For example, in one embodiment, an oligonucleotide array can be used. Oligonucleotide arrays typically comprise a plurality of different oligonucleotide probes that are coupled to a surface of a substrate in different known locations. These oligonucleotide arrays, also described
10 as "Genechips.TM.," have been generally described in the art, for example, U.S. Pat. No. 5,143,854 and PCT patent publication Nos. WO 90/15070 and 92/10092. These arrays can generally be produced using mechanical synthesis methods or light directed synthesis methods which incorporate a combination of photolithographic methods and solid phase oligonucleotide synthesis methods. See Fodor *et al.*,
15 *Science, 251*:767-777 (1991), Pirrung *et al.*, U.S. Pat. No. 5,143,854 (see also PCT Application No. WO 90/15070) and Fodor *et al.*, PCT Publication No. WO 92/10092 and U.S. Pat. No. 5,424,186, the entire teachings of each of which are incorporated by reference herein. Techniques for the synthesis of these arrays using mechanical synthesis methods are described in, e.g., U.S. Pat. Nos. 5,384,261, the
20 entire teachings of which are incorporated by reference herein.

Once an oligonucleotide array is prepared, a nucleic acid of interest is hybridized with the array and scanned for polymorphisms. Hybridization and scanning are generally carried out by methods described herein and also in, e.g., Published PCT Application Nos. WO 92/10092 and WO 95/11995, and U.S. Pat.
25 No. 5,424,186, the entire teachings of which are incorporated by reference herein. In brief, a target nucleic acid sequence which includes one or more previously identified polymorphic markers is amplified by well known amplification techniques, e.g., PCR. Typically, this involves the use of primer sequences that are complementary to the two strands of the target sequence both upstream and
30 downstream from the polymorphism. Asymmetric PCR techniques may also be used. Amplified target, generally incorporating a label, is then hybridized with the

array under appropriate conditions. Upon completion of hybridization and washing of the array, the array is scanned to determine the position on the array to which the target sequence hybridizes. The hybridization data obtained from the scan is typically in the form of fluorescence intensities as a function of location on the array.

5   Although primarily described in terms of a single detection block, e.g., for detection of a single polymorphism, arrays can include multiple detection blocks, and thus be capable of analyzing multiple, specific polymorphisms. In alternate arrangements, it will generally be understood that detection blocks may be grouped within a single array or in multiple, separate arrays so that varying, optimal

10   conditions may be used during the hybridization of the target to the array. For example, it may often be desirable to provide for the detection of those polymorphisms that fall within G-C rich stretches of a genomic sequence, separately from those falling in A-T rich segments. This allows for the separate optimization of hybridization conditions for each situation.

15   Additional description of use of oligonucleotide arrays for detection of polymorphisms can be found, for example, in U.S. Patents 5,858,659 and 5,837,832, the entire teachings of which are incorporated by reference herein.

Other methods of nucleic acid analysis can be used to detect polymorphisms in PDE4D or splicing variants encoding by PDE4D. Representative methods

20   include direct manual sequencing (Church and Gilbert, (1988), *Proc. Natl. Acad. Sci. USA 81*:1991-1995; Sanger, F. *et al.* (1977) *Proc. Natl. Acad. Sci. 74*:5463-5467; Beavis *et al.* U.S. Pat. No. 5,288,644); automated fluorescent sequencing; single-stranded conformation polymorphism assays (SSCP); clamped denaturing gel electrophoresis (CDGE); denaturing gradient gel electrophoresis (DGGE) (Sheffield,

25   V.C. *et al.* (19891) *Proc. Natl. Acad. Sci. USA 86*:232-236), mobility shift analysis (Orita, M. *et al.* (1989) *Proc. Natl. Acad. Sci. USA 86*:2766-2770), restriction enzyme analysis (Flavell *et al.* (1978) *Cell 15*:25; Geever, *et al.* (1981) *Proc. Natl. Acad. Sci. USA 78*:5081); heteroduplex analysis; chemical mismatch cleavage (CMC) (Cotton *et al.* (1985) *Proc. Natl. Acad. Sci. USA 85*:4397-4401); RNase

30   protection assays (Myers, R.M. *et al.* (1985) *Science 230*:1242); use of polypeptides

which recognize nucleotide mismatches, such as *E. coli* mutS protein; allele-specific
PCR, for example.

In another embodiment of the invention, diagnosis of a susceptibility to
stroke can also be made by examining expression and/or composition of an PDE4D

5   polypeptide, by a variety of methods, including enzyme linked immunosorbent
assays (ELISAs), Western blots, immunoprecipitations and immunofluorescence. A
test sample from an individual is assessed for the presence of an alteration in the
expression and/or an alteration in composition of the polypeptide encoded by
PDE4D, or for the presence of a particular variant encoded by PDE4D. An

10   alteration in expression of a polypeptide encoded by PDE4D can be, for example, an
alteration in the quantitative polypeptide expression (i.e., the amount of polypeptide
produced); an alteration in the composition of a polypeptide encoded by PDE4D is
an alteration in the qualitative polypeptide expression (e.g., expression of a mutant
PDE4D polypeptide or of a different splicing variant). In a preferred embodiment,

15   diagnosis of a susceptibility to stroke is made by detecting a particular splicing
variant encoded by PDE4D, or a particular pattern of splicing variants.

Both such alterations (quantitative and qualitative) can also be present. An
"alteration" in the polypeptide expression or composition, as used herein, refers to an
alteration in expression or composition in a test sample, as compared with the

20   expression or composition of polypeptide by PDE4D in a control sample. A control
sample is a sample that corresponds to the test sample (e.g., is from the same type of
cells), and is from an individual who is not affected by stroke. An alteration in the
expression or composition of the polypeptide in the test sample, as compared with
the control sample, is indicative of a susceptibility to stroke. Similarly, the presence

25   of one or more different splicing variants in the test sample, or the presence of
significantly different amounts of different splicing variants in the test sample, as
compared with the control sample, is indicative of a susceptibility to stroke. Various
means of examining expression or composition of the polypeptide encoded by
PDE4D can be used, including spectroscopy, colorimetry, electrophoresis,

30   isoelectric focusing, and immunoassays (e.g., David *et al.*, U.S. Pat. No. 4,376,110)
such as immunoblotting (see also Current Protocols in Molecular Biology,

particularly chapter 10). For example, in one embodiment, an antibody capable of binding to the polypeptide (e.g., as described above), preferably an antibody with a detectable label, can be used. Antibodies can be polyclonal, or more preferably, monoclonal. An intact antibody, or a fragment thereof (e.g., Fab or F(ab')$_2$) can be

5   used. The term "labeled", with regard to the probe or antibody, is intended to encompass direct labeling of the probe or antibody by coupling (i.e., physically linking) a detectable substance to the probe or antibody, as well as indirect labeling of the probe or antibody by reactivity with another reagent that is directly labeled. Examples of indirect labeling include detection of a primary antibody using a

10   fluorescently labeled secondary antibody and end-labeling of a DNA probe with biotin such that it can be detected with fluorescently labeled streptavidin.

Western blotting analysis, using an antibody as described above that specifically binds to a polypeptide encoded by a mutant PDE4D, or an antibody that specifically binds to a polypeptide encoded by a non-mutant gene, or an antibody

15   that specifically binds to a particular splicing variant encoded by PDE4D, can be used to identify the presence in a test sample of a particular splicing variant or of a polypeptide encoded by a polymorphic or mutant PDE4D, or the absence in a test sample of a particular splicing variant or of a polypeptide encoded by a non-polymorphic or non-mutant gene. The presence of a polypeptide encoded by a

20   polymorphic or mutant gene, or the absence of a polypeptide encoded by a non-polymorphic or non-mutant gene, is diagnostic for a susceptibility to stroke, as is the presence (or absence) of particular splicing variants encoded by the PDE4D gene.

In one embodiment of this method, the level or amount of polypeptide encoded by PDE4D in a test sample is compared with the level or amount of the

25   polypeptide encoded by PDE4D in a control sample. A level or amount of the polypeptide in the test sample that is higher or lower than the level or amount of the polypeptide in the control sample, such that the difference is statistically significant, is indicative of an alteration in the expression of the polypeptide encoded by PDE4D, and is diagnostic for a susceptibility to stroke. Alternatively, the

30   composition of the polypeptide encoded by PDE4D in a test sample is compared with the composition of the polypeptide encoded by PDE4D in a control sample

(e.g., the presence of different splicing variants). A difference in the composition of
the polypeptide in the test sample, as compared with the composition of the
polypeptide in the control sample, is diagnostic for a susceptibility to stroke. In
another embodiment, both the level or amount and the composition of the

5   polypeptide can be assessed in the test sample and in the control sample. A
difference in the amount or level of the polypeptide in the test sample, compared to
the control sample; a difference in composition in the test sample, compared to the
control sample; or both a difference in the amount or level, and a difference in the
composition, is indicative of a susceptibility to stroke.

10   Kits (e.g., reagent kits) useful in the methods of diagnosis comprise
components useful in any of the methods described herein, including for example,
hybridization probes or primers as decribed herein (e.g., labeled probes or prmers),
reagents for detection of labeled molecules, restriction enzymes (e.g., for RFLP
analysis), allele-specific oligonucleotides, antibodies which bind to mutant or to

15   non-mutant (native) PDE4D polypeptide, means for amplification of nucleic acids
comprising PDE4D, or means for analyzing the nucleic acid sequence of PDE4D or
for analyzing the amino acid sequence of an PDE4D polypeptide, etc.

SCREENING ASSAYS AND AGENTS IDENTIFIED THEREBY
          The invention provides methods (also referred to herein as "screening

20   assays") for identifying the presence of a nucleotide that hybridizes to a nucleic acid
of the invention, as well as for identifying the presence of a polypeptide encoded by
a nucleic acid of the invention. In one embodiment, the presence (or absence) of a
nucleic acid molecule of interest (e.g., a nucleic acid that has significant homology
with a nucleic acid of the invention) in a sample can be assessed by contacting the

25   sample with a nucleic acid comprising a nucleic acid of the invention (e.g., a nucleic
acid having the sequence of SEQ ID NO: 1 which may optionally comprise at least
one polymorphism shown in Tables 9 and 10, or the complement thereof, or a
nucleic acid encoding an amino acid having the sequence of SEQ ID NO: 2, 3, 4, 5,
6, 7, 8, 9, 10, 12 or 14, or a fragment or variant of such nucleic acids), under

30   stringent conditions as described above, and then assessing the sample for the

presence (or absence) of hybridization. In a preferred embodiment, high stringency conditions are conditions appropriate for selective hybridization. In another embodiment, a sample containing the nucleic acid molecule of interest is contacted with a nucleic acid containing a contiguous nucleotide sequence (e.g., a primer or a

5   probe as described above) that is at least partially complementary to a part of the nucleic acid molecule of interest (e.g., a PDE4D nucleic acid), and the contacted sample is assessed for the presence or absence of hybridization. In a preferred embodiment, the nucleic acid containing a contiguous nucleotide sequence is completely complementary to a part of the nucleic acid molecule of interest.

10   In any of these embodiment, all or a portion of the nucleic acid of interest can be subjected to amplification prior to performing the hybridization.

In another embodiment, the presence (or absence) of a polypeptide of interest, such as a polypeptide of the invention or a fragment or variant thereof, in a sample can be assessed by contacting the sample with an antibody that specifically

15   hybridizes to the polypeptide of interest (e.g., an antibody such as those described above), and then assessing the sample for the presence (or absence) of binding of the antibody to the polypeptide of interest.

In another embodiment, the invention provides methods for identifying agents (e.g., fusion proteins, polypeptides, peptidomimetics, prodrugs, receptors,

20   binding agents, antibodies, small molecules or other drugs, or ribozymes which alter (e.g., increase or decrease) the activity of the polypeptides described herein, or which otherwise interact with the polypeptides herein. For example, such agents can be agents which bind to polypeptides described herein (e.g., PDE4D binding agents); which have a stimulatory or inhibitory effect on, for example, activity of

25   polypeptides of the invention; or which change (e.g., enhance or inhibit) the ability of the polypeptides of the invention to interact with PDE4D binding agents (e.g., receptors or other binding agents); or which alter posttranslational processing of the PDE4D polypeptide (e.g., agents that alter proteolytic processing to direct the polypeptide from where it is normally synthesized to another location in the cell,

30   such as the cell surface; agents that alter proteolytic processing such that more polypeptide is released from the cell, etc.

In one embodiment, the invention provides assays for screening candidate or test agents that bind to or modulate the activity of polypeptides described herein (or biologically active portion(s) thereof), as well as agents identifiable by the assays. Test agents can be obtained using any of the numerous approaches in combinatorial

5   library methods known in the art, including: biological libraries; spatially addressable parallel solid phase or solution phase libraries; synthetic library methods requiring deconvolution; the 'one-bead one-compound' library method; and synthetic library methods using affinity chromatography selection. The biological library approach is limited to polypeptide libraries, while the other four approaches are

10 applicable to polypeptide, non-peptide oligomer or small molecule libraries of compounds (Lam, K.S. (1997) *Anticancer Drug Des., 12*:145).

In one embodiment, to identify agents which alter the activity of a PDE4D polypeptide, a cell, cell lysate, or solution containing or expressing a PDE4D polypeptide (e.g., SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or another splicing

15 variant encoded by PDE4D), or a fragment or derivative thereof (as described above), can be contacted with an agent to be tested; alternatively, the polypeptide can be contacted directly with the agent to be tested. The level (amount) of PDE4D activity is assessed (e.g., the level (amount) of PDE4D activity is measured, either directly or indirectly), and is compared with the level of activity in a control (i.e., the

20 level of activity of the PDE4D polypeptide or active fragment or derivative thereof in the absence of the agent to be tested). If the level of the activity in the presence of the agent differs, by an amount that is statistically significant, from the level of the activity in the absence of the agent, then the agent is an agent that alters the activity of PDE4D polypeptide. An increase in the level of PDE4D activity relative to a

25 control, indicates that the agent is an agent that enhances (is an agonist of) PDE4D activity. Similarly, a decrease in the level of PDE4D activity relative to a control, indicates that the agent is an agent that inhibits (is an antagonist of) PDE4D activity. In another embodiment, the level of activity of a PDE4D polypeptide or derivative or fragment thereof in the presence of the agent to be tested, is compared with a

30 control level that has previously been established. A level of the activity in the

presence of the agent that differs from the control level by an amount that is
statistically significant indicates that the agent alters PDE4D activity.

The present invention also relates to an assay for identifying agents which
alter the expression of the PDE4D gene (e.g., antisense nucleic acids, fusion

5   proteins, polypeptides, peptidomimetics, prodrugs, receptors, binding agents,
antibodies, small molecules or other drugs, or ribozymes) which alter (e.g., increase
or decrease) expression (e.g., transcription or translation) of the gene or which
otherwise interact with the nucleic acids described herein, as well as agents
identifiable by the assays. For example, a solution containing a nucleic acid

10   encoding PDE4D polypeptide (e.g., PDE4D gene) can be contacted with an agent to
be tested. The solution can comprise, for example, cells containing the nucleic acid
or cell lysate containing the nucleic acid; alternatively, the solution can be another
solution which comprises elements necessary for transcription/translation of the
nucleic acid. Cells not suspended in solution can also be employed, if desired. The

15   level and/or pattern of PDE4D expression (e.g., the level and/or pattern of mRNA or
of protein expressed, such as the level and/or pattern of different splicing variants) is
assessed, and is compared with the level and/or pattern of expression in a control
(i.e., the level and/or pattern of the PDE4D expression in the absence of the agent to
be tested). If the level and/or pattern in the presence of the agent differs, by an

20   amount or in a manner that is statistically significant, from the level and/or pattern in
the absence of the agent, then the agent is an agent that alters the expression of
PDE4D. Enhancement of PDE4D expression indicates that the agent is an agonist
of PDE4D activity. Similarly, inhibition of PDE4D expression indicates that the
agent is an antagonist of PDE4D activity. In another embodiment, the level and/or

25   pattern of PDE4D polypeptide(s)(e.g., different splicing variants) in the presence of
the agent to be tested, is compared with a control level and/or pattern that has
previously been established. A level and/or pattern in the presence of the agent that
differs from the control level and/or pattern by an amount or in a manner that is
statistically significant indicates that the agent alters PDE4D expression.

30   In another embodiment of the invention, agents which alter the expression of
the PDE4D gene or which otherwise interact with the nucleic acids described herein,

can be identified using a cell, cell lysate, or solution containing a nucleic acid
encoding the promoter region of the PDE4D gene operably linked to a reporter gene.
After contact with an agent to be tested, the level of expression of the reporter gene
(e.g., the level of mRNA or of protein expressed) is assessed, and is compared with

5   the level of expression in a control (i.e., the level of the expression of the reporter
gene in the absence of the agent to be tested). If the level in the presence of the
agent differs, by an amount or in a manner that is statistically significant, from the
level in the absence of the agent, then the agent is an agent that alters the expression
of PDE4D, as indicated by its ability to alter expression of a gene that is operably

10   linked to the PDE4D gene promoter. Enhancement of the expression of the reporter
indicates that the agent is an agonist of PDE4D activity. Similarly, inhibition of the
expression of the reporter indicates that the agent is an antagonist of PDE4D
activity. In another embodiment, the level of expression of the reporter in the
presence of the agent to be tested, is compared with a control level that has

15   previously been established. A level in the presence of the agent that differs from
the control level by an amount or in a manner that is statistically significant indicates
that the agent alters PDE4D expression.

             Agents which alter the amounts of different splicing variants encoded by
PDE4D (e.g., an agent which enhances activity of a first splicing variant, and which

20   inhibits activity of a second splicing variant), as well as agents which are agonists of
activity of a first splicing variant and antagonists of activity of a second splicing
variant, can easily be identified using these methods described above.

             In other embodiments of the invention, assays can be used to assess the
impact of a test agent on the activity of a polypeptide in relation to a PDE4D binding

25   agent. For example, a cell that expresses a compound that interacts with PDE4D
(herein referred to as a "PDE4D binding agent", which can be a polypeptide or other
molecule that interacts with PDE4D, such as a receptor) is contacted with PDE4D in
the presence of a test agent, and the ability of the test agent to alter the interaction
between PDE4D and the PDE4D binding agent is determined. Alternatively, a cell

30   lysate or a solution containing the PDE4D binding agent, can be used. An agent

which binds to PDE4D or the PDE4D binding agent can alter the interaction by
interfering with, or enhancing the ability of PDE4D to bind to, associate with, or
otherwise interact with the PDE4D binding agent. Determining the ability of the
test agent to bind to PDE4D or an PDE4D binding agent can be accomplished, for

5   example, by coupling the test agent with a radioisotope or enzymatic label such that
binding of the test agent to the polypeptide can be determined by detecting the
labeled with ^{125}I, ^{35}S, ^{14}C or ^{3}H, either directly or indirectly, and the radioisotope
detected by direct counting of radioemmission or by scintillation counting.
Alternatively, test agents can be enzymatically labeled with, for example,

10   horseradish peroxidase, alkaline phosphatase, or luciferase, and the enzymatic label
detected by determination of conversion of an appropriate substrate to product. It is
also within the scope of this invention to determine the ability of a test agent to
interact with the polypeptide without the labeling of any of the interactants. For
example, a microphysiometer can be used to detect the interaction of a test agent

15   with PDE4D or a PDE4D binding agent without the labeling of either the test agent,
PDE4D, or the PDE4D binding agent. McConnell, H.M. *et al.* (1992) *Science,
257*:1906-1912. As used herein, a "microphysiometer" (*e.g.*, Cytosensor™) is an
analytical instrument that measures the rate at which a cell acidifies its environment
using a light-addressable potentiometric sensor (LAPS). Changes in this

20   acidification rate can be used as an indicator of the interaction between ligand and
polypeptide. See the Examples Section for a discussion of know PDE4D binding
partners. Thus, these receptors can be used to screen for compounds that are PDE4D
receptor agonists for use in treating stroke or PDE4D receptor antagonists for
studying stroke. The linkage data provided herein, for the first time, provides such

25   connection to stroke. Drugs could be designed to regulate PDE4D receptor
activation which in turn can be used to regulate signaling pathways and transcription
events of genes downstream, such as Cbfa1.

In another embodiment of the invention, assays can be used to identify
polypeptides that interact with one or more PDE4D polypeptides, as described

30   herein. For example, a yeast two-hybrid system such as that described by Fields and
Song (Fields, S. and Song, O., *Nature 340*:245-246 (1989)) can be used to identify

polypeptides that interact with one or more PDE4D polypeptides. In such a yeast
two-hybrid system, vectors are constructed based on the flexibility of a transcription
factor which has two functional domains (a DNA binding domain and a transcription
activation domain). If the two domains are separated but fused to two different

5   proteins that interact with one another, transcriptional activation can be achieved,
and transcription of specific markers (e.g., nutritional markers such as His and Ade,
or color markers such as lacZ) can be used to identify the presence of interaction and
transcriptional activation. For example, in the methods of the invention, a first
vector is used which includes a nucleic acid encoding a DNA binding domain and

10   also an PDE4D polypeptide, splicing variant, or fragment or derivative thereof, and
a second vector is used which includes a nucleic acid encoding a transcription
activation domain and also a nucleic acid encoding a polypeptide which potentially
may interact with the PDE4D polypeptide, splicing variant, or fragment or derivative
thereof (e.g., a PDE4D polypeptide binding agent or receptor). Incubation of yeast

15   containing the first vector and the second vector under appropriate conditions (e.g.,
mating conditions such as used in the Matchmaker™ system from Clontech) allows
identification of colonies which express the markers of interest. These colonies can
be examined to identify the polypeptide(s) which interact with the PDE4D
polypeptide or fragment or derivative thereof. Such polypeptides may be useful as

20   agents which alter the activity of expression of an PDE4D polypeptide, as described
above.

       In more than one embodiment of the above assay methods of the present
invention, it may be desirable to immobilize either PDE4D, the PDE4D binding
agent, or other components of the assay on a solid support, in order to facilitate

25   separation of complexed from uncomplexed forms of one or both of the
polypeptides, as well as to accommodate automation of the assay. Binding of a test
agent to the polypeptide, or interaction of the polypeptide with a binding agent in the
presence and absence of a test agent, can be accomplished in any vessel suitable for
containing the reactants. Examples of such vessels include microtitre plates, test

30   tubes, and micro-centrifuge tubes. In one embodiment, a fusion protein (e.g., a
glutathione-S-transferase fusion protein) can be provided which adds a domain that

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allows PDE4D or a PDE4D binding agent to be bound to a matrix or other solid support.

In another embodiment, modulators of expression of nucleic acid molecules of the invention are identified in a method wherein a cell, cell lysate, or solution

5   containing a nucleic acid encoding PDE4D is contacted with a test agent and the expression of appropriate mRNA or polypeptide (e.g., splicing variant(s)) in the cell, cell lysate, or solution, is determined. The level of expression of appropriate mRNA or polypeptide(s) in the presence of the test agent is compared to the level of expression of mRNA or polypeptide(s) in the absence of the test agent. The test

10   agent can then be identified as a modulator of expression based on this comparison. For example, when expression of mRNA or polypeptide is greater (statistically significantly greater) in the presence of the test agent than in its absence, the test agent is identified as a stimulator or enhancer of the mRNA or polypeptide expression. Alternatively, when expression of the mRNA or polypeptide is less

15   (statistically significantly less) in the presence of the test agent than in its absence, the test agent is identified as an inhibitor of the mRNA or polypeptide expression. The level of mRNA or polypeptide expression in the cells can be determined by methods described herein for detecting mRNA or polypeptide.

This invention further pertains to novel agents identified by the

20   above-described screening assays. Accordingly, it is within the scope of this invention to further use an agent identified as described herein in an appropriate animal model. For example, an agent identified as described herein (e.g., a test agent that is a modulating agent, an antisense nucleic acid molecule, a specific antibody, or a polypeptide-binding agent) can be used in an animal model to

25   determine the efficacy, toxicity, or side effects of treatment with such an agent. Alternatively, an agent identified as described herein can be used in an animal model to determine the mechanism of action of such an agent. Furthermore, this invention pertains to uses of novel agents identified by the above-described screening assays for treatments as described herein. In addition, an agent identified as described

30   herein can be used to alter activity of a polypeptide encoded by PDE4D, or to alter expression of PDE4D, by contacting the polypeptide or the gene (or contacting a cell

comprising the polypeptide or the gene) with the agent identified as described herein.

PHARMACEUTICAL COMPOSITIONS

The present invention also pertains to pharmaceutical compositions

5   comprising nucleic acids described herein, particularly nucleotides encoding the
polypeptides described herein; comprising polypeptides described herein (e.g., one
or more of SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14); and/or comprising other
splicing variants encoded by PDE4D; and/or an agent that alters (e.g., enhances or
inhibits) PDE4D gene expression or PDE4D polypeptide activity as described

10 herein. For instance, a polypeptide, protein (e.g., an PDE4D receptor), an agent that
alters PDE4D gene expression, or a PDE4D binding agent or binding partner,
fragment, fusion protein or prodrug thereof, or a nucleotide or nucleic acid construct
(vector) comprising a nucleotide of the present invention, or an agent that alters
PDE4D polypeptide activity, can be formulated with a physiologically acceptable

15 carrier or excipient to prepare a pharmaceutical composition. The carrier and
composition can be sterile. The formulation should suit the mode of administration.

Suitable pharmaceutically acceptable carriers include but are not limited to
water, salt solutions (e.g., NaCl), saline, buffered saline, alcohols, glycerol, ethanol,
gum arabic, vegetable oils, benzyl alcohols, polyethylene glycols, gelatin,

20 carbohydrates such as lactose, amylose or starch, dextrose, magnesium stearate, talc,
silicic acid, viscous paraffin, perfume oil, fatty acid esters, hydroxymethylcellulose,
polyvinyl pyrolidone, etc., as well as combinations thereof. The pharmaceutical
preparations can, if desired, be mixed with auxiliary agents, e.g., lubricants,
preservatives, stabilizers, wetting agents, emulsifiers, salts for influencing osmotic

25 pressure, buffers, coloring, flavoring and/or aromatic substances and the like which
do not deleteriously react with the active agents.

The composition, if desired, can also contain minor amounts of wetting or
emulsifying agents, or pH buffering agents. The composition can be a liquid
solution, suspension, emulsion, tablet, pill, capsule, sustained release formulation, or

30 powder. The composition can be formulated as a suppository, with traditional

binders and carriers such as triglycerides. Oral formulation can include standard carriers such as pharmaceutical grades of mannitol, lactose, starch, magnesium stearate, polyvinyl pyrollidone, sodium saccharine, cellulose, magnesium carbonate, etc.

5   Methods of introduction of these compositions include, but are not limited to, intradermal, intramuscular, intraperitoneal, intraocular, intravenous, subcutaneous, topical, oral and intranasal. Other suitable methods of introduction can also include gene therapy (as described below), rechargeable or biodegradable devices, particle acceleration devises ("gene guns") and slow release polymeric

10   devices. The pharmaceutical compositions of this invention can also be administered as part of a combinatorial therapy with other agents.

The composition can be formulated in accordance with the routine procedures as a pharmaceutical composition adapted for administration to human beings. For example, compositions for intravenous administration typically are

15   solutions in sterile isotonic aqueous buffer. Where necessary, the composition may also include a solubilizing agent and a local anesthetic to ease pain at the site of the injection. Generally, the ingredients are supplied either separately or mixed together in unit dosage form, for example, as a dry lyophilized powder or water free concentrate in a hermetically sealed container such as an ampule or sachette indicat-

20   ing the quantity of active agent. Where the composition is to be administered by infusion, it can be dispensed with an infusion bottle containing sterile pharmaceutical grade water, saline or dextrose/water. Where the composition is administered by injection, an ampule of sterile water for injection or saline can be provided so that the ingredients may be mixed prior to administration.

25   For topical application, nonsprayable forms, viscous to semi-solid or solid forms comprising a carrier compatible with topical application and having a dynamic viscosity preferably greater than water, can be employed. Suitable formulations include but are not limited to solutions, suspensions, emulsions, creams, ointments, powders, enemas, lotions, sols, liniments, salves, aerosols, etc.,

30   which are, if desired, sterilized or mixed with auxiliary agents, e.g., preservatives, stabilizers, wetting agents, buffers or salts for influencing osmotic pressure, etc. The

agent may be incorporated into a cosmetic formulation. For topical application, also suitable are sprayable aerosol preparations wherein the active ingredient, preferably in combination with a solid or liquid inert carrier material, is packaged in a squeeze bottle or in admixture with a pressurized volatile, normally gaseous propellant, e.g.,

5   pressurized air.

Agents described herein can be formulated as neutral or salt forms. Pharmaceutically acceptable salts include those formed with free amino groups such as those derived from hydrochloric, phosphoric, acetic, oxalic, tartaric acids, etc., and those formed with free carboxyl groups such as those derived from sodium,

10   potassium, ammonium, calcium, ferric hydroxides, isopropylamine, triethylamine, 2-ethylamino ethanol, histidine, procaine, etc.

The agents are administered in a therapeutically effective amount. The amount of agents which will be therapeutically effective in the treatment of a particular disorder or condition will depend on the nature of the disorder or

15   condition, and can be determined by standard clinical techniques. In addition, *in vitro* or *in vivo* assays may optionally be employed to help identify optimal dosage ranges. The precise dose to be employed in the formulation will also depend on the route of administration, and the seriousness of the symptoms of stroke, and should be decided according to the judgment of a practitioner and each patient's

20   circumstances. Effective doses may be extrapolated from dose-response curves derived from *in vitro* or animal model test systems.

The invention also provides a pharmaceutical pack or kit comprising one or more containers filled with one or more of the ingredients of the pharmaceutical compositions of the invention. Optionally associated with such container(s) can be a

25   notice in the form prescribed by a governmental agency regulating the manufacture, use or sale of pharmaceuticals or biological products, which notice reflects approval by the agency of manufacture, use of sale for human administration. The pack or kit can be labeled with information regarding mode of administration, sequence of drug administration (e.g., separately, sequentially or concurrently), or the like. The pack

30   or kit may also include means for reminding the patient to take the therapy. The pack or kit can be a single unit dosage of the combination therapy or it can be a

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plurality of unit dosages. In particular, the agents can be separated, mixed together in any combination, present in a single vial or tablet. Agents assembled in a blister pack or other dispensing means is preferred. For the purpose of this invention, unit dosage is intended to mean a dosage that is dependent on the individual

5   pharmacodynamics of each agent and administered in FDA approved dosages in standard time courses.

METHODS OF THERAPY

The present invention also pertains to methods of treatment (prophylactic

10   and/or therapeutic) for stroke, particularly ischemic and TIA, using a PDE4D therapeutic agent. A "PDE4D therapeutic agent" is an agent that alters (e.g., enhances or inhibits) PDE4D polypeptide activity and/or PDE4D gene expression, as described herein (e.g., a PDE4D agonist or antagonist). PDE4D therapeutic agents can alter PDE4D polypeptide activity or gene expression by a variety of

15   means, such as, for example, by providing additional PDE4D polypeptide or by upregulating the transcription or translation of the PDE4D gene; by altering posttranslational processing of the PDE4D polypeptide; by altering transcription of PDE4D splicing variants; or by interfering with PDE4D polypeptide activity (e.g., by binding to a PDE4D polypeptide), or by downregulating the transcription or

20   translation of the PDE4D gene. Representative PDE4D therapeutic agents include the following:

nucleic acids or fragments or derivatives thereof described herein, particularly nucleotides encoding the polypeptides described herein and vectors comprising such nucleic acids (e.g., a gene, cDNA, and/or mRNA, such as a nucleic

25   acid encoding a PDE4D polypeptide or active fragment or derivative thereof, or an oligonucleotide; for example, SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10 or a nucleic acid encoding SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or fragments or derivatives thereof);

polypeptides described herein (e.g., one or more of SEQ ID NO: 2, 3, 4, 5, 6,

30   7, 8, 9, 10, 12 or 14, and/or other splicing variants encoded by PDE4D, or fragments or derivatives thereof);

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other polypeptides (e.g., PDE4D receptors); PDE4D binding agents; peptidomimetics; fusion proteins or prodrugs thereof; antibodies (e.g., an antibody to a mutant PDE4D polypeptide, or an antibody to a non-mutant PDE4D polypeptide, or an antibody to a particular splicing variant encoded by PDE4D, as described

5   above); ribozymes; other small molecules;

and other agents that alter (e.g., enhance or inhibit) PDE4D gene expression or polypeptide activity, or that regulate transcription of PDE4D splicing variants (e.g., agents that affect which splicing variants are expressed, or that affect the amount of each splicing variant that is expressed.

10   More than one PDE4D therapeutic agent can be used concurrently, if desired.

The PDE4D therapeutic agent that is a nucleic acid is used in the treatment of stroke. The term, "treatment" as used herein, refers not only to ameliorating symptoms associated with the disease, but also preventing or delaying the onset of the disease, and also lessening the severity or frequency of symptoms of the disease.

15   The therapy is designed to alter (e.g., inhibit or enhance), replace or supplement activity of a PDE4D polypeptide in an individual. For example, a PDE4D therapeutic agent can be administered in order to upregulate or increase the expression or availability of the PDE4D gene or of specific splicing variants of PDE4D, or, conversely, to downregulate or decrease the expression or availability of

20   the PDE4D gene or specific splicing variants of PDE4D. Upregulation or increasing expression or availability of a native PDE4D gene or of a particular splicing variant could interfere with or compensate for the expression or activity of a defective gene or another splicing variant; downregulation or decreasing expression or availability of a native PDE4D gene or of a particular splicing variant could minimize the

25   expression or activity of a defective gene or the particular splicing variant and thereby minimize the impact of the defective gene or the particular splicing variant.

The PDE4D therapeutic agent(s) are administered in a therapeutically effective amount (i.e., an amount that is sufficient to treat the disease, such as by ameliorating symptoms associated with the disease, preventing or delaying the onset

30   of the disease, and/or also lessening the severity or frequency of symptoms of the disease). The amount which will be therapeutically effective in the treatment of a

particular individual's disorder or condition will depend on the symptoms and severity of the disease, and can be determined by standard clinical techniques. In addition, *in vitro* or *in vivo* assays may optionally be employed to help identify optimal dosage ranges. The precise dose to be employed in the formulation will also

5   depend on the route of administration, and the seriousness of the disease or disorder, and should be decided according to the judgment of a practitioner and each patient's circumstances. Effective doses may be extrapolated from dose-response curves derived from *in vitro* or animal model test systems.

In one embodiment, a nucleic acid of the invention (e.g., a nucleic acid

10   encoding a PDE4D polypeptide, such as SEQ ID NO:1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10; or another nucleic acid that encodes a PDE4D polypeptide or a splicing variant, derivative or fragment thereof, such as a nucleic acid encoding SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14) can be used, either alone or in a pharmaceutical composition as described above.

15   For example, PDE4D or a cDNA encoding the PDE4D polypeptide, either by itself or included within a vector, can be introduced into cells (either *in vitro* or *in vivo*) such that the cells produce native PDE4D polypeptide. If necessary, cells that have been transformed with the gene or cDNA or a vector comprising the gene or cDNA can be introduced (or re-introduced) into an individual affected with the disease.

20   Thus, cells which, in nature, lack native PDE4D expression and activity, or have mutant PDE4D expression and activity, or have expression of a disease-associated PDE4D splicing variant, can be engineered to express PDE4D polypeptide or an active fragment of the PDE4D polypeptide (or a different variant of PDE4D polypeptide). In a preferred embodiment, nucleic acid encoding the PDE4D

25   polypeptide, or an active fragment or derivative thereof, can be introduced into an expression vector, such as a viral vector, and the vector can be introduced into appropriate cells in an animal. Other gene transfer systems, including viral and nonviral transfer systems, can be used. Alternatively, nonviral gene transfer methods, such as calcium phosphate coprecipitation, mechanical techniques (e.g.,

30   microinjection); membrane fusion-mediated transfer via liposomes; or direct DNA uptake, can also be used.

Alternatively, in another embodiment of the invention, a nucleic acid of the invention; a nucleic acid complementary to a nucleic acid of the invention; or a portion of such a nucleic acid (e.g., an oligonucleotide as described below), can be used in "antisense" therapy, in which a nucleic acid (e.g., an oligonucleotide) which

5   specifically hybridizes to the mRNA and/or genomic DNA of PDE4D is administered or generated *in situ*. The antisense nucleic acid that specifically hybridizes to the mRNA and/or DNA inhibits expression of the PDE4D polypeptide, e.g., by inhibiting translation and/or transcription. Binding of the antisense nucleic acid can be by conventional base pair complementarity, or, for example, in the case

10   of binding to DNA duplexes, through specific interaction in the major groove of the double helix.

An antisense construct of the present invention can be delivered, for example, as an expression plasmid as described above. When the plasmid is transcribed in the cell, it produces RNA which is complementary to a portion of the

15   mRNA and/or DNA which encodes PDE4D polypeptide. Alternatively, the antisense construct can be an oligonucleotide probe which is generated *ex vivo* and introduced into cells; it then inhibits expression by hybridizing with the mRNA and/or genomic DNA of PDE4D. In one embodiment, the oligonucleotide probes are modified oligonucleotides which are resistant to endogenous nucleases, e.g.

20   exonucleases and/or endonucleases, thereby rendering them stable *in vivo*. Exemplary nucleic acid molecules for use as antisense oligonucleotides are phosphoramidate, phosphothioate and methylphosphonate analogs of DNA (see also U.S. Pat. Nos. 5,176,996; 5,264,564; and 5,256,775). Additionally, general approaches to constructing oligomers useful in antisense therapy are also described,

25   for example, by Van der Krol *et al.* ((1988) *Biotechniques* 6:958-976); and Stein *et al.* ((1988) *Cancer Res* 48:2659-2668). With respect to antisense DNA, oligodeoxyribonucleotides derived from the translation initiation site, e.g. between the -10 and +10 regions of PDE4D sequence, are preferred.

To perform antisense therapy, oligonucleotides (mRNA, cDNA or DNA) are

30   designed that are complementary to mRNA encoding PDE4D. The antisense oligonucleotides bind to PDE4D mRNA transcripts and prevent translation.

Absolute complementarity, although preferred, is not required. a sequence
"complementary" to a portion of an RNA, as referred to herein, indicates that a
sequence has sufficient complementarity to be able to hybridize with the RNA,
forming a stable duplex; in the case of double-stranded antisense nucleic acids, a

5   single strand of the duplex DNA may thus be tested, or triplex formation may be
assayed. The ability to hybridize will depend on both the degree of complementarity
and the length of the antisense nucleic acid, as described in detail above. Generally,
the longer the hybridizing nucleic acid, the more base mismatches with an RNA it
may contain and still form a stable duplex (or triplex, as the case may be). One

10   skilled in the art can ascertain a tolerable degree of mismatch by use of standard
procedures.

The oligonucleotides used in antisense therapy can be DNA, RNA, or
chimeric mixtures or derivatives or modified versions thereof, single-stranded or
double-stranded. The oligonucleotides can be modified at the base moiety, sugar

15   moiety, or phosphate backbone, for example, to improve stability of the molecule,
hybridization, etc. The oligonucleotides can include other appended groups such as
peptides (e.g. for targeting host cell receptors *in vivo*), or agents facilitating transport
across the cell membrane (see, e.g., Letsinger *et al.* (1989) *Proc. Natl. Acad. Sci.
USA* 86:6553-6556; Lemaitre *et al.*, (1987), *Proc. Natl. Acad Sci. USA* 84:648-652;

20   PCT International Publication No. WO88/09810) or the blood-brain barrier (see, e.g.,
PCT International Publication No. WO89/10134), or hybridization-triggered
cleavage agents (see, e.g., Krol *et al.* (1988) *BioTechniques* 6:958-976) or
intercalating agents. (See, e.g., Zon, (1988), *Pharm. Res.* 5:539-549). To this end,
the oligonucleotide may be conjugated to another molecule (e.g., a peptide,

25   hybridization triggered cross-linking agent, transport agent, hybridization-triggered
cleavage agent).

The antisense molecules are delivered to cells which express PDE4D *in vivo*.
A number of methods can be used for delivering antisense DNA or RNA to cells;
e.g., antisense molecules can be injected directly into the tissue site, or modified

30   antisense molecules, designed to target the desired cells (e.g., antisense linked to
peptides or antibodies that specifically bind receptors or antigens expressed on the

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target cell surface) can be administered systematically. Alternatively, in a preferred embodiment, a recombinant DNA construct is utilized in which the antisense oligonucleotide is placed under the control of a strong promoter (e.g., pol III or pol II). The use of such a construct to transfect target cells in the patient results in the

5   transcription of sufficient amounts of single stranded RNAs that will form complementary base pairs with the endogenous PDE4D transcripts and thereby prevent translation of the PDE4D mRNA. For example, a vector can be introduced *in vivo* such that it is taken up by a cell and directs the transcription of an antisense RNA. Such a vector can remain episomal or become chromosomally integrated, as

10   long as it can be transcribed to produce the desired antisense RNA. Such vectors can be constructed by recombinant DNA technology methods standard in the art and described above. For example, a plasmid, cosmid, YAC or viral vector can be used to prepare the recombinant DNA construct which can be introduced directly into the tissue site. Alternatively, viral vectors can be used which selectively infect the

15   desired tissue, in which case administration may be accomplished by another route (e.g., systematically).

        Endogenous PDE4D expression can also be reduced by inactivating or "knocking out" PDE4D or its promoter using targeted homologous recombination (e.g., see Smithies *et al.* (1985) *Nature* 317:230-234; Thomas & Capecchi (1987)

20   *Cell* 51:503-512; Thompson *et al.* (1989) *Cell* 5:313-321). For example, a mutant, non-functional PDE4D (or a completely unrelated DNA sequence) flanked by DNA homologous to the endogenous PDE4D (either the coding regions or regulatory regions of PDE4D) can be used, with or without a selectable marker and/or a negative selectable marker, to transfect cells that express PDE4D *in vivo*. Insertion

25   of the DNA construct, via targeted homologous recombination, results in inactivation of PDE4D. The recombinant DNA constructs can be directly administered or targeted to the required site *in vivo* using appropriate vectors, as described above. Alternatively, expression of non-mutant PDE4D can be increased using a similar method: targeted homologous recombination can be used to insert a

30   DNA construct comprising a non-mutant, functional PDE4D (e.g., a gene having SEQ ID NO:1 which may optionally comprise at least one polymorphism shown in

Tables 9 and 10), or a portion thereof, in place of a mutant PDE4D in the cell, as described above. In another embodiment, targeted homologous recombination can be used to insert a DNA construct comprising a nucleic acid that encodes a PDE4D polypeptide variant that differs from that present in the cell.

5   Alternatively, endogenous PDE4D expression can be reduced by targeting deoxyribonucleotide sequences complementary to the regulatory region of PDE4D (i.e., the PDE4D promoter and/or enhancers) to form triple helical structures that prevent transcription of PDE4D in target cells in the body. (See generally, Helene, C. (1991) *Anticancer Drug Des.*, 6(6):569-84; Helene, C., *et al.* (1992) *Ann, N.Y.*

10   *Acad. Sci.*, 660:27-36; and Maher, L. J. (1992) *Bioassays* 14(12):807-15). Likewise, the antisense constructs described herein, by antagonizing the normal biological activity of one of the PDE4D proteins, can be used in the manipulation of tissue, e.g. tissue differentiation, both *in vivo* and *for ex vivo* tissue cultures. Furthermore, the anti-sense techniques (e.g. microinjection of antisense molecules, or transfection

15   with plasmids whose transcripts are anti-sense with regard to a PDE4D mRNA or gene sequence) can be used to investigate role of PDE4D in developmental events, as well as the normal cellular function of PDE4D in adult tissue. Such techniques can be utilized in cell culture, but can also be used in the creation of transgenic animals.

20   In yet another embodiment of the invention, other PDE4D therapeutic agents as described herein can also be used in the treatment or prevention of stroke. The therapeutic agents can be delivered in a composition, as described above, or by themselves. They can be administered systemically, or can be targeted to a particular tissue. The therapeutic agents can be produced by a variety of means,

25   including chemical synthesis; recombinant production; *in vivo* production (e.g., a transgenic animal, such as U.S. Pat. No. 4,873,316 to Meade *et al.*), for example, and can be isolated using standard means such as those described herein.

A combination of any of the above methods of treatment (e.g., administration of non-mutant PDE4D polypeptide in conjunction with antisense therapy targeting

30   mutant PDE4D mRNA; administration of a first splicing variant encoded by PDE4D

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in conjunction with antisense therapy targeting a second splicing encoded by
PDE4D), can also be used.

The invention will be further described by the following non-limiting
examples. The teachings of all publications cited herein are incorporated herein by
5   reference in their entirety.

EXAMPLES

EXAMPLE 1   IDENTIFICATION OF THE PDE4D GENE WITH LINKAGE TO
                    STROKE

Icelandic Stroke Patients and Phenotype Characterization

10   A population-based list containing 2543 Icelandic stroke patients, diagnosed
from 1993 through 1997, was derived from two major hospitals in Iceland and the
Icelandic Heart Association (the study was approved by the Icelandic Data
Protection Commission of Iceland and the National Bioethics Committee). Patients
with hemorrhagic stroke represented 6% of all patients (patients with the Icelandic
15   type of hereditary cerebral hemorrhage with amyloidosis and patients with
subarachnoid hemorrhage were excluded). Ischemic stroke accounted for 67% of
the total patients and TIAs 27%. The distribution of stroke suptypes in this study is
similar to that reported in other Caucasian populations (Mohr, J.P., *et al., Neurology*,
28:754-762 (1978); L. R. Caplan, *In Stroke, A Clinical Approach*
20   (Butterworth-Heinemann, Stoneham, MA, ed 3, (1993)).

The list of approximately 2000 living patients was run through our
computerized genealogy database. A comprehensive genealogy database that has
been established at deCODE genetics, Inc. was used to cluster the patients in
pedigrees. Each version of the computerized genealogy database is reversibly
25   encrypted by the Data Protection Commission of Iceland before arriving at the
laboratory (Gulcher, J.R., *et al., Eur. J. Hum. Genet. 8*:739 (2000)). The database
uses a patient list, with encrypted personal identifiers, as input, and recursive
algorithms to find all ancestors in the database who are related to any member on the

input list within a given number of generations back (Gulcher, J.R., and Stefansson, K., *Clin. Chem. Lab. Med.* *36*:523 (1998)) covering the whole Icelandic nation. The cluster function then searches for ancestors who are common to any two or more members of the input list. One hundred and seventy-nine families with two or more

5   living patients were chosen for the study with a total of 476 patients connected within 6 meioses (6 meioses connect second cousins). Informed consent was obtained from all patients and their relatives whose DNA samples were used in the linkage scan. The mean separation between affected pairs is 4.8 meioses. Of the patients selected for the study 73% had ischemic strokes, 23% TIAs and 4%

10   hemorrhagic strokes.

In the selected families, hemorrhagic stroke patients clustered with ischemic stroke and TIA patients, and there were no families with a striking preponderance of hemorrhagic stroke or of the subtypes of ischemic stroke. Patients with ischemic stroke were reclassified according to the TOAST (Trial of Org 10172 in Acute

15   Stroke Treatment) sub-classification system for stroke (Adams, H.P., Jr., *et al.*, *Stroke, 24*:34-41 (1993)). This system includes five categories: (1) large-artery atherosclerosis, (2) cardioembolism, (3) small-artery occlusion (lacune), (4) stroke of other determined etiology and (5) stroke of undetermined etiology. The diagnoses were based on clinical features and on data from ancillary diagnostic studies.

20   Patients defined with large-artery atherosclerosis had clinical and brain imaging findings of cerebral cortical dysfunction and either significant (>70%) stenosis (this is a stricter criteria than used in TOAST where 50% stenosis is the cut-off) or occlusion of a major brain artery or branch cortical artery. Potential sources of cardiogenic embolism were excluded. The category cardioembolism included

25   patients with at least one cardiac source for an embolus and potential large-artery sources of thromobosis and embolism was eliminated. Patients with small-artery occlusion had one of the traditional clinical lacunar syndromes and no evidence of cerebral cortical dysfunction. Potential cardiac source of embolus and stenosis >70% in an ipsilateral extracranial artery was excluded. The category, acute stroke

30   of other determined etiology, included patients with rare causes of stroke and patients with two or more potential causes of stroke. If the causes of stroke could

not be determined despite extensive evaluation patients were included in the category stroke of undetermined etiology. Fig. 1A and Fig. 1B display two pedigrees each affected by several of the stroke subtypes, including hemorrhagic stroke. Apparently what is inherited in stroke is the broadly defined phenotype.

5 *Genome-wide scan*

A genome-wide scan was performed using a framework map of about 1000 microsatellite markers. The DNA samples were genotyped using approximately 1000 fluorescently labelled primers. A microsatellite screening set based in part on the ABI Linkage Marker (v2) screening set and the ABI Linkage Marker (v2)

10 intercalating set in combination with 500 custom-made markers were developed. All markers were extensively tested for robustness, ease of scoring, and efficiency in 4X multiplex PCR reactions. In the framework marker set, the average spacing between markers was approximately 4 cM with no gaps larger than 10 cM. Marker positions were obtained from the Marshfield map

15 (*http://research.marshfieldclinic.org/genetics*) except for a three-marker putative inversion on chromosome 8 (Jonsdottir, G.M., *et al., Am. J. Hum. Genet., 67 (Suppl. 2)*:332 (2000); Yu, A., *et al., Am. J. Hum. Genet.. 67 (Suppl. 2)*:10 (2000). The PCR amplifications were set up, run and pooled on Perkin Elmer/Applied Biosystems 877 Integrated Catalyst Thermocyclers with a similar protocol for each marker. The

20 reaction volume used was 5 µl and for each PCR reaction 20 ng of genomic DNA was amplified in the presence of 2 pmol of each primer, 0.25 U AMPLITAQ GOLD (DNA polymerase; trademark of Roche Molecular Systems), 0.2 mM dNTPs and 2.5 mM MgCl2 (buffer was supplied by manufacturer). The PCR conditions used were 95˚C for 10 minutes, then 37 cycles of 15 s at 94˚C, 30s at 55˚C and 1 min at 72˚C.

25 The PCR products were supplemented with the internal size standard and the pools were separated and detected on Applied Biosystems model 377 Sequencer using v3.0 GENESCAN (peak calling software; trademark of Applied Biosystems). Alleles were called automatically with the TRUEALLELE (computer program for alleles identification; trademark of Cybegenetics, Inc.) program (*www.cybgen.com*),

30 and the program, DECODE-GT (computer editing program that works downstream

of the TRUEALLELE program; trademark of deCODE genetics, Inc.), was used to fractionate according to quality and edit the called genotypes (Palsson, B., *et al.*, *Genome Res. 9*:1002 (1999)). At least 180 Icelandic controls were genotyped to derive allelic frequencies.

5   A total of 476 patients and 438 relatives were genotyped. The data was analyzed and the statistical significance determined by applying affecteds-only allele-sharing methods (which does not specify any particular inheritance model) implemented in the ALLEGRO (computer program for multipoint linkage analysis; trademark of deCODE genetics, Inc.) program which calculates lod scores based on

10   multipoint calculations. Our baseline linkage analysis uses the S_{pairs} scoring function (Kruglyak, L., *et al.*, *Am. J. Hum. Genet., 58*:1347 (1996)), the exponential allele-sharing model (Kong, A. and Cox, N.J., *Am. J. Hum. Genet., 61*:1179 (1997)), and a family weighting scheme which is halfway, on the log scale, between weighting each affected pair equally and weighting each family equally. In the

15   analysis we treat all genotyped individuals who are not affected as "unknown". All linkage analyses in this paper were performed using multipoint calculation with the program ALLEGRO (deCODE genetics, Inc.) (Gudbjartsson, D.F., *et al.*, *Nat. Genet. 25*:12 (2000)).

The allele sharing lod scores for the genome scan using the framework map

20   showed three regions that achieved a lod score above 1.0. Two of these regions are on chromosome 5q. The first peak is at approximately 69 cM with a lod score of 2.00. The second peak is at 99 cM with a lod score of 1.14. The third region is on chromosome 14q at 55 cM with a lod score of 1.24.

The information for linkage at the 5q locus was increased by genotyping an

25   additional 45 markers over a 45 cM segment which spanned both peaks. The information used here is defined by Nicolae (D. L. Nicolae, Thesis, University of Chicago (1999)) and has been demonstrated to be asymptotically equivalent to a classical measure of the fraction of missing information (Dempster, A.P., *et al.*, *J. R. Statist. Soc. B, 39*:1 (1977)). While the lod score at the second peak dropped slightly

30   to around 1.05, the lod score at the first peak increased to 3.39. However, close inspection of our results suggested that not only does the Marshfield genetic map

(*http://research.marshfieldclinic.org/genetics*) lack resolution (many markers
assigned the same map location), but also there may be some errors in their order.
As a result, the genetic length of the region estimated using our material was
substantially greater than what is reported. By modifying the ALLEGRO (deCODE

5   genetics, Inc.) program, we applied the EM algorithm to our data to estimate the
genetic distances between markers. We found that our estimate of the genetic length
of the region was substantially longer than that given in the Marshfield map. This
indicates a problem with marker order because, in general, incorrect marker order
leads to an increased number of apparent crossovers and increases the apparent

10   genetic length.

Physical and genetic mapping

        The marker order and inter-marker distances were improved by constructing
high density physical and genetic maps over a 20 cM region between markers
D5S474 and D5S2046. A combination of data from coincident hybridizations of

15   BAC membranes using a high density of STSs and the Fingerprinting Contig
database was used to build large contigs of BACs from the RPCI-11 library. The
order of the linkage markers was also confirmed by high-resolution genetic mapping
using the stroke families supplemented with over 112 other large nuclear families
(Fig. 3). High resolution genetic mapping was used both to anchor and place in

20   order contigs found by physical mapping as well as to obtain accurate inter-marker
distances for the correctly ordered markers. Data from 112 Icelandic nuclear
families (sibships with their parents, containing from two to seven siblings) were
analyzed together with the nuclear families available within the stroke pedigrees.
For the purpose of genetic mapping the 112 nuclear families alone provide 588

25   meioses, and the total number of meioses available for mapping was over 2000. By
comparison, the Marshfield genetic map was constructed based on 182 meioses.
The large number of meiotic events within our families provides the ability to map
markers to the resolution of 0.5 to 1.0 cM. Combining this information with the
physical map resulted in a highly reliable order of markers and inter-marker

30   distances within this 20 cM region. Linkage markers common to the genetic and

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physical maps were used to anchor and place in order four of the physically mapped contigs. By integrating the genetic and physical maps a most likely order of 30 polymorphic markers was derived (Fig. 3).

BAC contigs were generated by a method that combines coincident primer
5   hybridization with data mining. The RPCI-11 human male BAC library segments 1 & 2 (Pieter de Jong, Children's Hospital Oakland Research Institute) containing about 200,000 clones with a 12X coverage, were gridded using a 6x6 double offset pattern in 23 cm x 23 cm membranes with a BioGrid robot (Biorobotics Ltd., Cambridge, UK). Initially, hybridizations were performed with markers in the
10   region of interest according to their location in the Weizmann Institute Unified Database (*http://bioinformatics.weizmann.ac.il/udb/*). Primer sequences were analyzed and discarded according to their content of known repeats, *E. coli* and vector sequences (the analysis was performed using software developed at deCODE genetics). One hundred and fifty markers in the region (30 polymorphic markers
15   used in linkage and 120 generated from STSs) separated by an average of 130 kb were used. The selected markers were used to generate two ^{32}P labelled probes, F that contained the pooled forward primers and R that contained the pooled reverse primers. Reading of positive signals was performed automatically from digitized images of resulting autoradiograms by informatics tools developed at deCODE
20   genetics. The coincident signals in both hybridizations were selected as positive clones. A set of overlapping clones was assembled through a combination of hybridization and BAC fingerprint walking. Fingerprints of positive clones were analyzed using the FPC database developed at the Sanger Center. Data from FPC contigs prebuilt with a cutoff of 3e-12 and from sequence datamining was integrated
25   with the hybridization results. BACs in the region detected by data mining and hybridization were re-arrayed using a Multiprobe IIex robot (Packard, Meriden, CT). Small membranes (8 cm x 12 cm) were gridded in 6x6 double offset pattern and individually hybridized with the markers of interest. Positive patterns were transferred using transparencies to an Excel file containing macros to provide BAC
30   to marker associations. A visual map was generated by combining the hybridization, fingerprinting and sequence data. New markers were generated from BAC end

sequences to close the gap. After several rounds of hybridization positive BACs
were assembled into 7 contigs covering approximately 20 Mb. Thirty of the
polymorphic markers used in linkage were assigned to four of the contigs (Fig. 3).
Estimation of contig lengths and distance between markers assigned to them was

5   based on the FPC program.

Twenty - seven of our 30 linkage markers mapped to three contigs in the
October 2000 release from UCSC, the UC Santa Cruz (UCSC) draft assembly
(*http://genome.ucsc.edu/*). The marker order within the contigs is in agreement with
our order with the exception of two markers. Although the UCSC assemblies are

10   improving, some contigs have incorrect order, orientation, or contig assembly. We
believe that high resolution genetic mapping and perhaps focused hybridization
experiments are still necessary to confirm accuracy of sequence assemblies. In
addition, high resolution genetic mapping provides better estimates of inter-marker
genetic distances that are also important for linkage analysis (Halpern, J. and

15   Whittermore, A.S., *Hum. Hered. 49*:194 (1999); Daw, E.W., *et al.*, *Genet.
Epidemiol. 19*:366 (2000)).

Final linkage results and localization

Linkage analysis including genotypes from the higher density markers using
the deCODE marker order resulted in a lod score of 4.40 (P = 3.9 X 10⁻⁶) on

20   chromosome 5q12 at the marker D5S2080. The reported P value is part of the
output of the ALLEGRO (deCODE genetics, Inc.) program. It is obtained by
comparing the observed lod score to the distribution of the lod score calculated
under the null hypothesis of no linkage and the assumption that the descent
information is complete. In this case, it agrees very well with the P value that one

25   would obtain by large sample approximation. The allele sharing lod score is the log,
base 10, of an one-degree of freedom likelihood ratio. Hence, with a one-sided test,
a lod score of 4.03 corresponds to a Z score of sqrt(2*log(10)*4.03) = 4.31. Normal
approximation gives a P value of 8.2 * 10⁻⁶. The locus has been designated as
STRK1. With the addition of these extra markers, it was possible to narrow down

30   the region to a segment less than 6 cM, from D5S1474 to D5S398, as defined by one

drop in lod. Analyses using the marker orders based on publicly available marker maps gave lower lod scores, ranging from 2.78 to 3.94.

To further investigate the contribution of this susceptibility locus to stroke, a range of parametric models were fitted to the data. However, all analyses were still

5 *affecteds only* in the sense that individuals were either classified as affecteds or having unknown disease status. A lod score of 4.08 was obtained with a dominant model where the allele frequency of the susceptibility gene was assumed to be 5% and carriers of the mutation were assumed to have seven-fold the risk of a non-carrier. By inspecting the individual families, no obvious correlation was seen

10 between families which contribute positively to the linkage results with the prevalence of hypertension, diabetes or hyperlipidemias. When the data were reanalyzed with the hemorrhagic stroke patients removed, the allele sharing lod score increased to 4.86 at D5S2080. Although this 0.46 increase in log score suggests that *STRK1* is involved primarily in ischemic stroke and TIAs, it is not

15 statistically significant based on simulations (one sided P equals 0.09). In order to assess whether such a change in lod score would be likely to occur by chance we selected 1000 random sets of 22 patients whose status we then changed to "unknown" in an analysis. The P value we present is the fraction of the 1000 simulations which produce a lod score increase at the peak locus equal to or greater

20 than that which we observed by changing the affection status of the 22 hemorrhagic stroke patients to "unknown".

Identification of Allelic Association

All microsatellite markers in the approx. 6 cM interval (Fig. 3, markers from D5S398 to D5S1474) were analysed with respect to allelic association.

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Table 1. The association of a fixed allele, with the stroke patients compared with
population controls.

Marker	Location (cM)	Allele (A)	p-value	Risk ratio	Total no. of patients	Patients with A	Total no. of controls	Controls with A
AC022125-3	68.3	0	2.83e-03	1.28	749	412	504	251
D5S2000	68.5	0	3.26e-03	1.27	717	302	555	196
D5S2091	68.6	0	5.44e-04	1.30	757	342	534	198
D17-C	68.8	0	1.91e-03	1.34	721	436	469	249
D17-B	68.9	0	1.30e-03	1.26	680	556	509	387
AC008818-1	72.7	0	3.26e-03	1.42	739	379	619	259
D5S1990	73.9	20	3.68e-03	1.68	756	75	623	36

Comment:
The alleles have conventional values resulting after subtracting the CEPH data.

Identification of Microsatellite and SNP Haplotypes Within the Gene

Fig. 5 shows a schematic representation of the genetic map showing
microsatellite and SNP haplotypes in the region of the stroke gene. Seven
haplotypes are shown from the association study of Icelandic patients (804 patients).

5   The haplotypes indicated as SW-1 and SW-2 are from an association study on
Swedish stroke patients.

A total number of 804 Icelandic patients were analyzed for microsatellite
single marker and multimarker association. The number of controls used in the
analysis was 504. Each patient had 2 or more close relatives genotyped in order to

10   derive haplotypes. The haplotypes were derived using ALLEGRO based haplotype
analysis (results shown in Table 2).

Table 2
Icelandic Patient Association

Markers	Alleles	pAllelic	All Frq Aff	All Frq Ctrl	pCarrier	Carr Frq Aff	Carr Frq Ctrl	# aff	# ctrl
All patients (n=804)									
D5S2000	0	1.12E-04	0.24	0.18	5.36E-04	0.43	0.33	744	429
D5S2091	0	5.28E-04	0.26	0.21	6.10E-04	0.46	0.37	770	478
AC022125-3	0	5.96E-04	0.33	0.27	3.24E-04	0.55	0.45	774	489
D17-C	0	9.93E-04	0.36	0.29	0.007	0.6	0.52	756	395
AC008833-6	0	0.0013	0.67	0.61	0.018	0.88	0.84	781	472
AC008818-1	0	0.0014	0.29	0.24	7.13E-04	0.51	0.41	773	482
AC008829-5	2	0.0063	0.03	0.015	0.005	0.06	0.03	645	474
(1) D5S2000 D5S2091 D17-C D17-B	0000	0.0018	0.17	0.11	0.004	0.3	0.22	552	325
(2) D5S2091 D17-C D17-B	000	9.06E-04	0.19	0.13	0.001	0.34	0.25	597	380
(3) AC008829-5 AC008833-2 AC008833-3	20 14 6	0.0017	0.01	0.002	0.002	0.029	0.004	579	431
(4) AC022125-3 AC008833-6 D5S2000 D5S2091 D17-C	00000	0.00374	0.17	0.13	0.012	0.32	0.24	629	317
(5) D5S2071 AC008879-2 AC008818-1 AC008879-3	-2 0 0 0	0.0031	0.05	0.02	0.004	0.09	0.044	489	362
(6) AC008879-2 AC008818-1 AC008879-3	0 0 0	9.25E-04	0.29	0.23	5.82E-04	0.5	0.4	621	443
(part 7) D5S2107 AC008829-5 AC008833-2	4 2 0	0.0097	0.007	0	0.009	0.01	0	540	422

Swedish patients have also been genotyped and microsatellite single and multimarker association has been analyzed using the E-M algorithm. A total number of 943 Swedish patients (stroke patients and patients with carotid stenosis) and 322 Swedish controls were analyzed (results shown in Table 3).

Table 3
Swedish Patient Association

Markers	Alleles	pAllelic	All Frq Aff	All Frq Ctrl	# aff	# ctrl
Swedish patients (n=943)						
D5S2000	2	2.39E-03			912	318
(Sw 2) AC022125-3 AC008833-6 D5S2000 D5S2091	0 0 2 0	6.0E-03	0.035	0.014	717	284
(Sw-1) AC008804-2 D17-H D17-G D5S2080	-2 4 -2 10	2.8E-03	0.057	0.053	672	113
AC008804-2 D17-H D17-G	-4 0 -2	3.7E-03	0.056	0.033	700	123

SNP haplotypes within the PDE4D gene have been identified. A total of 95 SNP's typed for approximately 500 patients and 140 controls and E-M algorithm was used to analyze the genotype (results shown in Table 4). Selected SNP's found in excess in patients (based on the E-M algorithm) were typed for a subset of relatives in order to derive haplotypes for haplotype analysis (results are shown in Table 5). SNP haplotypes 1 and 2 are located upstream of D6 exon, SNP haplotype 3 is located upstream of D8 exon and stretches over it, SNP haplotype 4 stretches over LF1 exon.

Table 4
SNP genotype analysis based E-M algorithm

SNP haplotype	Position	Alleles in Haploytpe	pAllelic	All Frq Aff	All Frq Ctrl	#Aff	#Ctrl
SNP-1	1273143-1269965	122303	9.9E-03	0.32	0.25	505	155
SNP-2	1260358-1254849	10323	2.8E-02	0.33	0.26	631	131
SNP-3	1399767-1318510	2313002	8.9E-03	0.26	0.18	759	149
SNP-4	1422008-1410824	111330	3E-02	0.56	0.48	344	128

Table 5A
SNP haplotype analysis

SNP haplo-type	Position	Alleles in haplo-type	pAllelic	All Frq Aff	All Frq Ctrl	Carr Frq Aff	Carr Frq Ctrl	# Aff	# Ctrl
SNP-1	1273143-1269965	122303	4.27E-04	0.31	0.18	0.49	0.308	111	149
SNP-2	1260358-1254849	10323	0.0043	0.32	0.2	0.508	0.35	114	128

Table 5B
SNPs in the identified SNP haplotypes

Haplotype	SNP	Public name if available	Polymorpism	position	Allele
SNP-2	1	new	T/C	1254849	3
SNP-2	2	new	A/G	1257206	2
SNP-2	3	TSC0538885	T/C	1257624	3
SNP-2	4	new	A/C	1259581	0
SNP-2	5	rs244579	T/C	1260358	1
SNP1	1	rs35284	T/C	1269965	3
SNP1	2	rs35283	A/G	1270041	0
SNP1	3	rs35281	A/G	1270553	3
SNP1	4	rs35280	G/A	1272125	2
SNP1	5	new	A/G	1272910	2
SNP1	6	rs35279	G/C	1273143	1
SNP3	1	rs255652	A/G	1318510	2
SNP3	2	rs27547	G/A	1371388	0
SNP3	3	rs26695	G/A	1390407	0
SNP3	4	rs27773	C/T	1391020	3
SNP3	5	rs1471430	C/G	1391818	1
SNP3	6	rs26705	C/T	1392198	3
SNP3	7	rs26701	G/C	1399767	2
SNP4	1	rs464311	A/G	1410824	0
SNP4	2	rs1867725	T/C	1412604	3
SNP4	3	rs153966	T/C	1414091	3
SNP4	4	new	C/T	1414804	1

Table 6A and 6B show previously known microsatellite markers and novel microsatellites in sequence. Forward and reverse primers are shown.

Table 6A   Previously Known microsatellite markers in sequence

	Accession number	Forward primer	SEQ ID NO.	Reverse primer	SEQ ID NO.
D5S2107	GDB:614475	AGCCTTTGGGCCAACA	15	CAAACCAACAGGAGTATGTACTTTT	16
D5S468	GDB:593646	AAATGAATGGTAGATTTAACCTGAG	17	TGGGAAAATAAATACACATGCG	18
D5S2000	GDB:608769	TTATACCAGGAGAGTAGACTTTTT	19	CATGCTAATTTCAAATATGAGAG	20
D5S2091	GDB:613806	GCATTTGTCATGTGCCA	21	GGTATTTCATTCACAGCCAGTC	22
D5S2500	GDB:683034	TTAAAGGAGTGATCTCCCCC	23	GTTACAGTACCTATGGTCATGCC	24
D5S2080	GDB:613188	GCACTGTGAATTTCAAATG	25	GTCAGGGGACTGGGAT	26
D5S2018	GDB:609957	CCTGTAAACAATGAAAACCCACTGA	27	AGACTATGCTGTGTGTGTGCCTG	28
D5S2071	GDB:612756	TCTGGGTTTACAACCTTCAAA	29	TAACTGGCTTGGCCCG	30

Table 6B   Novel microsatellites in sequence:

	Forward primer	SEQ ID NO.	Reverse primer	SEQ ID NO.
DG5S382	CAGTAAATAGTTTGCTTCAGGCATT	31	CTCATACTCTGCGTGGCTTG	32
AC008829-5	AGGGCTAAGTGGATCACAGC	33	AGAGGGTCTTGCCACTGTGT	34
AC008833-2	TCTGCAAGACTCTCGGTGCT	35	TGCAGATCTCATATTCCATGTTT	36
AC008833-3	TCTGCCCTTGTTCCTCATC	37	GTCAAGGGAGTGATGGCAGT	38
AC022125-3	AAAATGACTGCCTCCCACAA	39	GGGAAATCATACTGCCCTCA	40
AC008833-6	AAACATAGCCACCCTGTTGC	41	TCCAAAGCCCTTAGCTTAATCA	42
D17-C	GCTCCCTGGACTGTGGTAAA	43	GCCACATTGCTGTCACATTT	44
D17-B	TTTTTCAGGGCTGGGTAGAA	45	TCCAAAGGAAGTGAAATCAGTG	46
D17-D	CTAACCCATCCTCACCCAAT	47	TGTGGCATACAGGGAAGTGA	48
AC008804-1	GTGCTGGAATTTGGCTCCTA	49	CAAACATCATTTGCCTTGC	50
AC008804-2	TCCCAAACGATAGCTGTTGC	51	GAATTAGGACGGGTGGCTCAA	52
AC008804-3	TTTGCATTCATCACTCATTCG	53	CCCGTAGCATCTGATCCAGT	54
D17-H	AGAAAGCTTCCCCTCCACTG	55	CATTCCAGCCTGAGCTACAA	56
D17-G	TGGGCTCCAATTATCCTTCC	57	TGCAGTTTGCACTCTCCTTG	58
AC027322-12	TTATCTGTTCCCCATGCTTTT	59	TGTTACATCTTGATCTATGACGTTT	60
AC027322-10	TGTATCCTGCATCCCTTGTT	61	GGAATAACCCAAAGTAATTGTAGTGA	62
AC027322-9	TCGTGCCAAGATGAAAATGA	63	AAACCTCCCTGATCATCTGAA	64
AC027322-8	ACAGAGGAGCAAAGGAATCA	65	TTGGCACGAATCACTCTCTG	66
AC027322-3	CCCCATTTGATGATGGTAA	67	TGAGAACATCTAAGTCTTTTTCAA	68
AC027322-5	GGCACAGATAACTGGGAAGC	69	CCCCCAAAGTACTGCATAAA	70
DG5S397	ATGTTGGCATTTGGTGAGGT	71	CACCTGTCCCTTTGGAGGTA	72
AC008879-2	TTTTAAACGTGAAAAGTACAAGTTGC	73	ACAAAGAGCAACTTTCCAGTG	74
AC008818-1	TGCTTGGTGAAGGAATAGCC	75	GAGCCTGGGTTCTCAGGAAT	76
AC008879-3	GGCAAGAACAGTTTGGAGGA	77	GACTGCTGTTTGCTGTTGA	78
AC020733-1	AAATGGCTATAAAGTGCTTTGAAC	79	CGGTCTCAACAACCAGAACA	80
AC016591-2	CAGAAACACACAGAAGTCATTCAA	81	CAGACCCAATTAATGGCAAAA	82
DG5S405	TCTGTCTTCTTTGACCCATGAAT	83	CAACACAGCGGAGACCTCATC	84

Discussion of Stroke Locus Identification

Genealogy, a comprehensive population based list of broadly defined stroke patients and non-parametric allele sharing methods have been combined to successfully map a major gene for one of the most complex diseases known. There was no
5   correlation between the contribution of the families to the locus and hypertension, diabetes or hyperlipidemias and this locus does not match any known gene contributing to these risk factors. The types of stroke studied in this work do not reflect a rare or Icelandic-specific form of stroke; rather, the diversity of the stroke phenotypes in Icelanders as well as risk factors are similar to those of most other Caucasian
10   populations (Agnarsson, U., *et al., Ann. Intern. Med., 130*:987 (1999); Eliasson, J.H., *et al., Læknablaðið, 85*:517-25 (1999); Sveinbjörnsdottir, S., *et al.*, Systematic registration of patients with Stroke and TIA admitted to The National University Hospital, Reykjavik, Iceland, in 1997, XIII. Meeting of the Icelandic Association in Internal Medicine, Akureyri, Iceland (Læknabladid, 1998); Valdimarsson, E.M., *et al.,*
15   *Læknabladid 84*:921 (1998)).

The known genetic factors contributing to common stroke may do so indirectly by increasing the risk of some of its risk factors such as diabetes, hyperlipidemias, and hypertension. It is possible that there are genetic factors for stroke that do not influence susceptibility to the known risk factors, as has been suggested by epidemiologic studies
20   for myocardial infarction (Friedlander, Y., *et al., Br. Heart J., 53*:382 (1985); Shea, S., *et al., J. Am. Coll. Cardiol., 4*:793 (1984); Myers, R.H., *et al., Am. Heart J., 120*:963 (1990)). Epidemiological studies of the common forms of stroke have given conflicting results regarding the role of family history. Some studies have shown that parental history predicts the risk of stroke independently from conventional risk factors (Liao,
25   D., *et al., Stroke, 28*:1908 (1997); Jousilahti, P., *et al., Stroke, 28*:1361 (1997)) whereas others have failed to find evidence for such independent factors (Graffagnino, C., *Stroke, 25*:1599 (1994); Kiely, D.K., *et al., Stroke, 24*:1366 (1993); Lindenstrom, E., *et al., Neuroepidemiology, 12*:37 (1993).

The work described herein is the first reported genome scan searching for genes that contribute to stroke as defined as a public health problem. The data reported herein suggests that the mapped gene contributes directly to stroke without contributing indirectly through its known risk factors. This suggests that there may be other

5   biological pathways contributing to the pathogenesis of stroke.

EXAMPLE 2 IDENTIFICATION OF THE PDE4D GENE

Sequence of the Candidate Region

We have sequenced approximately 3 Mb of the area defined by one drop in lod (Fig. 3, the genetic map of the region). The BAC (bacterial artificial clones) sequenced

10   in house are shown in Table 7A. We also used for the assembly the following publicly available BAC sequences from GenBank listed in Table 7B for the assembly. The BAC clones we sequenced are from the RCPI-11 Human BAC library (Pieter deJong, Roswell Park). The vector used was pBACe3.6. The clones were picked into a 94 well microtiter plate containing LB/chloramphenicol (25 µg/ml)/glycerol (7.5%) and stored

15   at -80°C after a single colony has been positively identified through sequencing. The clones can then be streaked out on a LB agar plate with the appropriate antibiotic, chloramphenicol (25 µg/ml)/sucrose (5%).

Table 7A

Sequenced at Decode (BAC name)	Comment	Accession number
RP11-621C19	1	AC020733
RP11-113C1	2	
RP11-412M9	2	
RP11-151G2	2	
RP11-151F7	2	
RP11-281M3	2	
RP11-421L6	2	
RP11-68E13	2	
RP11-379P8	2	
RP11-1A7	1	AC008111
RP11-422K3	2	
RP11-116A3	2	

Key to "Comment" column:

1= This BAC has a publicly available sequence,

it was sequenced at Decode to make sure the sequence was correct

2= Only BAC end-sequence available for this BAC publicly.

Table 7B

Sequences available from GenBank (BAC name)	Accession number	Status of sequence
RP11-621C19	AC020733	17 unordered pieces
CTD-2003D5	AC016591	complete sequence
CTD-2210C1	AC008879	7 unordered pieces
CTD-2124H11	AC008818	complete sequence
CTD-2301A11	AC008934	complete sequence
RP11-16B11	AC011929	7 unordered pieces
CTC-261E10	AC026693	complete sequence
CTD-2027G10	AC027322	complete sequence
RP11-1A7	AC008111	8 unordered pieces
CTD-2122K7	AC012315	complete sequence
CTD-2085F10	AC008804	complete sequence
CTD-2040J22	AC008791	complete sequence
RP11-235N16	AC020975	16 ordered pieces
CTD-2146O16	AC008833	complete sequence
CTD-2084I4	AC022125	17 ordered pieces
CTD-2140K22	AC008829	26 ordered pieces
CTD-2124D11	AC020924	7 ordered pieces
RP11-731H6	AC026095	21 unordered pieces

Gene identification

The gene, human cAMP specific phosphodiesterase 4D (HPDE4D) was identified in the sequenced region (Fig. 3). Twenty-three exons have been identified,

eighteen of those have previously been published. See top of Fig. 4. Five new spliced exons have been identified (referred to as 4D6, 4D7-1, 4D7-2, 4D7-3 and 4D8) in three new isoforms (PDE4D6, PDE4D7 and PDE4D8). The genomic sequence is approximately 1,691,140 bases in length.

The exon locations are indicated in Table 8 below.

Table 8

Exon	Start	End
(New) 4D7-1	142207	142328
(New) 4D7-2	444645	444775
(New) 4D7-3	641649	641878
4D4	736254	737226
4D5	861791	862202
4D3	1044051	1044190
(New) 4D6	1273404	1273709
(New) 4D8	1354347	1355128
LF1	1414511	1414702
LF2	1436943	1436979
LF3	1472965	1473235
LF4	1449835	1449542
N3	1539259	1539302
4D1/D2	1591172	1591425
ex3	1636944	1637037
ex4	1638406	1638578
ex5	1639508	1639606
ex6	1640491	1640655
ex7	1641818	1641917
ex8	1653070	1653224
ex9	1653943	1654065
ex10	1654576	1654758
ex11	1655335	1655747

The markers showing the highest association are located within the PDE4D (Table 1, Fig. 3 and Table 5), as follows:

AC022125-3, 21 000 bp upstream of the LF1 exon

D5S2000, 37 000 bp downstream of PDE4D6 exon

D5S2091, 30 000 bp downstream of PDE4D6 exon

D17-C, 21 000 bp upstream of PDE4D6 exon

D17-B, 31 000 bp upstream of PDE4D6 exon

AC008833-6, 35 000 bp downstream of PDE4D8 exon

AC008818-1, 3000 pb upstream of PDE4D7-1 exon

AC008829-5, 89 000 bp upstream of PDE4D1/D2 exon

Haplotype (1) and (2) are located upstream of and stretch over the PDE4D6 exon

Haplotype (3) is located upstream of and stretches over the LF2-LF4 exons

Haplotype (4) stretches over PDE4D6 and PDE4D8 exons

Haplotype (5) stretches over PDE4D7-1 to PDE4D7-3 exons

Haplotype (6) stretches over PDE4D7-1 exon

Haplotype (7) stretches over LF2-exons 11

A contig for the incomplete genomic sequence of the PDE4D gene was submitted in November 2000 (GenBank entry NT_023193 by International Human Genome Project collaborators). The size of the contig is 614 481 bp (including gaps) whereas our genomic sequence for the whole PDE4D region (i.e., from the first exon for PDE4D variant) is close to 1,700,000 bp. The contig NT_023193 comprises only 11 exons of the PDE4D gene (in Fig. 4, exons 4D1/D2 - 11) and the 5' differently spliced exons are missing in the contig (in Fig. 4, exons 4D4, 4D5, 4D3, 4D6, 4D8, 4D7-1, 4D7-2, 4D7-3, LF1, LF2, LF3 and LF4).

SNPs (single nucleotide polymorphisms) detected in the sequence and mutation analysis

Publically available and novel SNP's in the PDE4D2 gene from mutation screening of all exons are illustrated in Tables 9 and 10.

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Gene Identification

The identified gene PDE4D is a member of the cyclic nucleotide phosphodiesterases (PDEs). Intracellular levels of cyclic AMP and cyclic GMP are mediated by the PDEs. Cyclic nucleotides are important second messengers that regulate and mediate a number of cellular responses to extracellular signals, such as hormones, light and neurotransmitters. Intracellular levels of cAMP play a key role in the function of inflammatory and immune cells. One of the mechanisms that mediate relaxation of vascular muscle in cerebral circulation is the production of cAMP.

PDE4D Structure and Splice Forms

Phosphodiesterases are the mammalian homolog of the "dunce" gene in *Drosophila melanogaster*, implicated in learning and memory (Davis, R.L. and B. Dauwalder, *Trends Genet., 7(7)*:224-229 (1991)). PDEs are members of a large superfamily of isoenzymes subdivided into 9 and possibily 10 distinct families (Conti, M. and S.L. Jin, *Prog. Nucleic Acid Res. Mol. Biol., 63*:1-38 (1999)), with several genes in each family and more than one isoform for each gene. The significance of the diversity of PDEs is not known but many of the isoforms differ in their biochemical properties, phosphorylation, intracellular targeting, protein-protein interactions and patterns of expression in tissues, which suggests that each of the various isoforms might have distinct functions (Bolger, G.B., *Cell Signal, 6(8)*:851-859 (1994); Conti, M., *et al., Endocr. Rev., 16(3)*:370-378 (1995)).

There are four genes that encode the type 5 PDEs (PDE4A, PDE4B, PDE4C and PDE4D), which is a group of enzymes characterized by high affinity for cAMP. The gene for PDE4D was assigned to human chromosome 5q12 (Milatovich, A., *et al., Somat. Cell Mol. Genet., 20(2)*:75-86 (1994); Szpirer, C., *et al., Cytogenet. Cell Genet., 69(1-2)*:22-14 (1995)) and 5 distinct splice variants have been characterized (the short forms PDE4D1, PDE4D2 and the long forms PDE4D3, PDE4D4, and PDE4D5) (Bolger, G.B., *et al., Biochem. J., 328(Pt.2)*:539-548 (1997)) (Fig. 4). The sequence of

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the human PDE4D variants show a high degree of homology to the PDE4Ds expressed

in mouse and rat. The pattern of splicing and different promoter usage is highly

conserved during evolution indicating an important physiological role (Nemoz, G., et al.,

FEBS Lett., 384(1):97-102 (1996)). The PDE4D variants are generated at two major

boundaries present in the gene. The first boundary corresponds to the junction of exon

2. Differential splicing in this region generates the 2 short variants PDE4D1 (586 a.a.)

and PDE4D2 (508 a.a.)(Fig. 4). This splicing boundary is conserved in mouse, rat and

between different human PDE4 genes. The splicing variant PDE4D2 is generated by the

removal of 256 bp from the PDE4D1 sequence. The initiation codon in the PDE4D2

variant lies within exon D1/D2. Data demonstrates that the expression of the short

PDE4D variants is under the control of an internal promoter regulated by cAMP (Vicini,

E. and M. Conti, *Mol. Endocrinol., 11(7)*:839-850 (1997)). The second major splicing

boundary is also conserved during evolution and is identical to that described in the

Drosophila dunce gene. Splicing occurs at the intron/exon boundary at the LF1 exon

(Fig. 4).

PDE function

The PDEs serve at least four major functions in the cell. They can (1) act as

effector of signal transduction by interacting with receptors and G-proteins; (2) integrate

the cyclic nucleotide-dependent pathway with other signal transduction pathways; (3)

function as homeostatic regulators, playing a role in feedback mechanisms controlling

cyclic nucleotide levels during hormone and neurotransmitter stimulation; (4) play an

important role in controlling the diffusion of cyclic nucleotides and in creating

subcellular domains or channeling cyclic nucleotide signaling (Conti, M. and S.L. Jin,

Prog. Nucleic Acid Res. Mol Biol., 63:1-38.(1999)). Inhibition of PDE has long been

recognized as an effective pharmacological strategy to alter intracellular cyclic

nucleotide levels (Flamm, E.S., *et al.*, *Arch. Neurol., 32(8)*:569-71 (1975)).

It has been reported that PDE4 is the predominant isozyme regulating vascular tone mediated by cAMP hydrolysis in cerebral vessels (Willette, R.N., *et al., J. Cereb. Blood Flow Metab., 17(2)*:210-9 (1997)).

A recent study on mice with targeted disruption of PDE4D gene (Hansen, G., *et al., Proc. Natl. Acad. Sci. U S A, 97(12)*:6751-6 (2000)) has demonstrated a crucial role of PDE4D in the control of smooth muscle contraction and muscarinic cholinergic receptor signaling but not in the control of airway inflammation. The lung phenotype of the PDE4D-/- mice demonstrates that this gene plays a nonredundant role in cAMP homeostasis. There is a significant reduction in PDE activity and an increase in resting and stimulated cAMP levels in the lung, indicating that other PDE4s (or other PDEs) are not up-regulated and cannot compensate for the loss of PDE4D. These findings support that PDE4D serves a unique, nonoverlapping functions in cell signalling.

No clear link between an established inherited disorder and known PDE loci has emerged, with the exception of PDE6. Inhibitors of PDEs have been shown to affect airway responsiveness and pulmonary allergic inflammation (Schudt, C., *et al., Pulm. Pharmacol. Ther., 12(2)*:123-9 (1999)). There are reports suggesting that altered PDE4 function may be linked to nephrogenic diabetes insipidus (Takeda, S., *et al., Endocrinology, 129(1)*:287-94 (1991)) or atopic dermatitis (Chan, S.C., *et al., J. Allergy Clin. Immunol., 91(6)*:1179-88 (1993)), however no mutations have been identified. It has also been reported that that vasorelaxation modulated by PDE4 (not mentioned whether it is A, B, C or D gene family) is compromised in chronic cerebral vasospasm associated with subarachnoid hemorrhage (Willette, R.N., *et al., J. Cereb. Blood Flow Metab., 17(2)*:210-9 (1997)). PDE4D itself has not been linked to stroke before.

PDE4D expression and cellular localization

PDE4Ds are expressed in human peripheral mononuclear cells (Nemoz, G., *et al., FEBS Lett, 384(1)*:97-102 (1996)), brain (Bolger, G., *et al., Mol. Cell Biol., 13(10)*:6558-71 (1993)), heart (Kostic, M.M., *et al., J. Mol. Cell Cardiol.,*

29(11):3135-46 (1997)) and vascular smooth muscle cells (Liu, H. and D.H. Maurice, *J. Biol. Chem., 274(15)*:10557-65 (1999)).

Immunoblotting of rat brain has shown that the PDE4D3, PDE4D4 and PDE4D5 proteins are present in brain (Bolger, G.B., *et al., Biochem. J., 328(Pt 2)*:539-48 (1997)) and are expressed in cortex and cerebellum from rat (Iona, S., *et al., Mol. Pharmacol., 53(1)*:23-32 (1998)). These proteins were recovered mostly or exclusively in the particulate fraction suggesting that these forms may be targeted to insoluble cellular structures. In addition a 68 kDa protein was detected which could represent PDE4D1, PDE4D2 or both. To verify this RT-PCR was performed on mRNA from rat brain and the results showed that transcripts for PDE4D1 and 2 were present. Their data also suggests that the N-terminal regions of the PDE4D3-5, derived from alternatively spliced regions of their mRNAs, are important in determining their subcellular localization activity and differential sensitivity to inhibitors and there are indications that there is a propensity for the long PDE4D isoforms to interact with particulate fraction of the cell.

Newly identified isoforms

Five new exons have been identified. Exon D6 was identified by deCODE (in silico) and verified by RT-PCR. The four other new exons have been identified using CAP-RACE amplification from cultured cells with an "long-form 1"-specific reverse primer. Three of these exons are spliced to one another and together onto LF1 and this new isoform was given the name D7. The fourth new 5' exon was spliced by itself onto LF1 and given the name D8. These constitute two previously unknown isoforms.

In terms of genomic structure, the D7 exons extend the known 5' end of PDE4D over 590,000 bp and the D8 exon lies between two previously recognized exons. The D7 isoform has an open reading frame extending into LF1, resulting in an additional 90 amino acids at the N-terminus of the predicted protein. The D8 5' exon contains a long 5' UTR, followed by an ATG near the end of the exon that extends an ORF into LF1 and results in a novel 21 N-terminal amino acids in the predicted protein.

Table 11: New Isoforms

Isoform				
Name				**Cell line**
	Exon		**Size**	
PDE4D6	D6			
PDE4D7	D7-1	5'	122 bp	SKNAS
PDE4D7	D7-2	Internal	131bp	SKNAS
PDE4D7	D7-3	Internal	230 bp	SKNAS
PDE4D8	D8	5'	782 bp	HeLa

The sequences are as follows:

D7-1:

ATAGTTGGCGTACCCTGAGGCCTGCCAGTTCCTGCCTTAATGCATATGTAGT
CGTAATTGAGTTCTGACACGGCCTTGGATGTTTCTGTCCTAAATAGCTGACA
TTGCATCTTCAAGACTGT

D7-2:

CATTCCAGTTGGCTTTTGAGTGGATACGTGCAGTGAGATCATTGACACTGGA
AACACTAGTTCCCATTTTAATTACTTAAAACACCACGATGAAAAGAAATACC
TGTGATTTGCTTTCTCGGAGCAAAAGT

D7-3:

GCCTCTGAGGAAACACTACATTCCAGTAATGAAGAGGAAGACCCTTTCCGC
GGAATGGAACCCTATCTTGTCCGGAGACTTTCATGTCGCAATATTCAGCTTC
CCCCTCTCGCCTTCAGACAGTTGGAACAAGCTGACTTGAAAAGTGAATCAGA
GAACATTCAACGACCAACCAGCCTCCCCCTGAAGATTCTGCCGCTGATTGCT
ATCACTTCTGCAGAATCCAGTGG (SEQ. ID NO.: 11; includes D7-1, D7-2 and D7-3)

New predicted amino-terminal protein sequence from above (PDE4D7):

MKRNTCDLLSRSKSASEETLHSSNEEEDPFRGMEPYLVRRLSCRNIQLPPLAFRQ
LEQADLKSESENIQRPTSLPLKILPLIAITSAESS (90 amino acids) (SEQ ID NO.:12)

D8:

TTCTCACTGCCCTGCGGTGTTTTGAACTGCCTTCTTACAGACGTCATACAGCC
CTTGAGGAATAGTTTCTGCCTGGTGAGATTGAATGATAGTTCTCATTCACAA
AACCCTGGATTCTAAGCAGGGACACACAGAAATTACTTTCGCAGGTAAATC
AGCCCACCCAGCCAAAGTGTGGAGAGATTTGTTCCTTGGCTGACTTCTTTGC
TCCACGGAGAGGAGTGTTTTCCTGTGCTTGCCCTGAAATGGAACTTCCTTGA
CAGCTCTCCCGTGTTACAGTACCTCCCGGTCATTTTCTTTTTCTCTCTCTAC
CTGCGCTCTTCGAGTGTCAGAAACCTTTAAAGCTGTTACTATGGAATTGCAA
AAAAGAGATCAAGTGACTCTTTCACTATGCTGGTTTCCCTTGTGACCCAGAT
GAAGAATCAATTCAGAATTCAGTTCCTCCCTTGGCATTGCAAGACACAGAAG
AAACTGTCACTTCCTAACAGCCTAGTACTGGAGTAAATTCAGTATGAAGGAA
GAAAGCGCTCCTGCGTGTTAGAACCTTGCCCATGAGCTGGACCGAGGACAG
GAGATGGACTCCAGGAAAATTGGATTTCTTCAAGCAGCCTCCCTTGGAAATG
GAATATCTTTAAAATCTTCTTTGCAGAAAGACAGTTAGAATGTATTAATCAG
AATAGTTGAAGACTTATTTTCCTTTTTATTTTTTTTCAAAATGAGCATTATTAT
GAAGCCAAGATCCCGATCTACAAGTTCCCTAAGGACTGCAGAGGCAGTTTG
(SEQ ID NO.:13)

New predicted amino-terminal protein sequence from above (PDE4D8):

MSIIMKPRSRSTSSLRTAEAV (21 amino acids) (SEQ ID NO.: 14).

Expression analysis

The tissues below were examined by RT-PCR, cloning and sequencing. The presence (Pos.) or absence (-) of the isoforms transcripts is shown in tables below.

Table 12A   Original Cell Lines (SKNAS and HeLa)

	D7	D8
HeLa	-	Pos.
SkNAs	Pos.	Pos.

Table 12B   Human tissue DNA panels

cDNA panels	D7	D8
Spleen	-	Pos.
Lymph node	Pos.	Pos.
Thymus	Pos.	Pos.
Tonsil	Pos.	Pos.
Leukocytes	Pos.	Pos.
Bone marrow	Pos.	Pos.
Heart	-	Pos.
Brain	-	Pos.
Placenta	Pos.	Pos.
Lung	Pos.	Pos.
Liver	-	Pos.
Skel. muscle	-	Pos.
Kidney	Pos.	Pos.
Pancreas	-	Pos.

Table 12C   Human blood cell fractions

	D7	D8
Spleen	Pos.	Pos.
Lymph node	Pos.	Pos.
Thymus	Pos.	Pos.
Tonsil	Pos.	Pos.
Leukocytes	Pos.	-
Bone marrow	Pos.	Pos.
Fetal liver	Pos.	Pos.
Mononucl. cells resting	Pos.	Pos.
CD4Pos. resting	-	Pos.
CD8Pos. resting	-	-
CD14Pos. resting	Pos.	Pos.
CD19Pos. resting	Pos.	Pos.
Mononucl. cells activated	-	-
CD4Pos. activated	-	-
CD8Pos. activated	-	-
CD19Pos. activated	-	Pos.

Table 12D   Cultured in-house endothelial and smooth muscle cells from patients

Cell type	D1	D2	D3	D5	D6	D7	D8
Normal aorta smooth musc.	Pos.	Pos.	Pos.	Pos.	Pos.	-	-
Diseased aorta smooth musc.	Pos.	Pos.	-	Pos.	Pos.	-	Pos.
Diseased aorta smooth musc.	Pos.	Pos.	-	Pos.	Pos.	-	-
Diseased femoral smooth musc.	Pos.	Pos.	-	Pos.	Pos.	-	Pos.
Normal aortic endothelial cells	Pos.	Pos.	Pos.	Pos.	Pos.	Pos.	Pos.
Diseased aortic endothelial cells	Pos.	Pos.	-	Pos.	Pos.	-	-
Diseased femoral endothelial cells	Pos.	Pos.	-	Pos.	Pos.	-/?	-/?

Isoform specific primers were designed in order to better determine the
expression of different PDE4D isoforms using RT-PCR on Epstein Barr Virus (EBV)
transformed B cell lines from stroke patients and controls. The results are outlined in
Tables 13A and 13B below. There is a significant difference between the expression of
D3 and D7 in patients compared to controls.

Table 13A   RT-PCR on EBV transformed B stroke patient cells

Patient Cells	PDE4D*	D3	D4	D5	D6	D7	D8
P-1	Pos.	Pos.	-	Pos.	-	Pos.	Pos.
P-2	Pos.	Pos.	-	Pos.	-	Pos.	-
P-3	Pos.	-	-	Pos.	-	-	-
P-4	Pos.	Pos.	-	Pos.	-	Pos.	-
P-5	Pos.	Pos.	Pos.	Pos.	-	Pos.	-
P-6	Pos.	-	Pos.	Pos.	-	Pos.	-
P-7	Pos.	Pos.	-	Pos.	-	Pos.	-
P-8	Pos.	-	-	-	-	Pos.	-
P-9	Pos.	-	-	Pos.	-	Pos.	-
P-10	Pos.	-	-	Pos.	Pos.	Pos.	-
P-11	Pos.	-	-	Pos.	-	Pos.	-
P-12	Pos.	-	-	Pos.	-	Pos.	-
P-13	Pos.	-	-	Pos.	-	Pos.	-
P-14	Pos.	-	-	Pos.	-	Pos.	-
% expr.	100	35,7	14,3	92,8	7,1	92,8	7,1

*Primers designed for the common region of PDE4D identical for all isoforms

Table 13B   RT-PCR on EBV transformed B control cells

Control Cells	PDE4D *	D3	D4	D5	D6	D7	D8
C-1	Pos.	-	-	Pos.	-	-	Pos.
C-2	Pos.	-	-	Pos.	-	-	-
C-3	Pos.	-	-	Pos.	-	-	-
C-4	Pos.	-	-	Pos.	-	-	-
C-5	Pos.	-	-	-	-	Pos.	-
C-6	Pos.	-	-	-	-	-	-
C-7	-	-	-	Pos.	-	-	Pos.
C-8	Pos.	-	-	-	-	Pos.	-
C-8	Pos.	Pos.	-	Pos.	-	Pos.	-
C-9	Pos.	-	-	-	-	Pos.	-
C-10	Pos.	-	-	Pos.	-	Pos.	-
C-11	Pos.	-	-	Pos.	-	Pos.	-
C-12	Pos.	-	-	Pos.	-	-	-
% expr.	92,3	7,7[a]	0	69,2	0	46,2[b]	15,4

[a] $p < 0.09$ using Fisher's Exact Test.

[b] $p = 0.01$ using Fisher's Exact Test

*Primers designed for the common region of PDE4D identical for all isoforms

Table 9

Publically Available SNPS; SNP ID No. from NCBI Database

rs286155	rs40512	rs251726	rs2042315	rs1544791	rs1355099
rs286156	rs35386	rs1862589	rs918590	rs851284	rs1396473
rs2061250	rs35387	rs702556	rs918591	rs1396476	rs1369285
rs286150	rs27221	rs702554	rs918592	rs1508860	rs1435071
rs206789	rs27653	rs441391	rs1115372	rs1974850	rs1435070
rs1823062	rs26955	rs446883	rs1345782	rs2136203	rs1435083
rs1823063	rs26956	rs789615	rs1363862	rs2174994	rs991551
rs1445852	rs153031	rs401207	rs1423248	rs1508863	rs1154790
rs766119	rs185190	rs364917	rs1423246	rs1508859	rs1154789
rs956721	rs37762	rs404202	rs1862614	rs1508864	rs714291
rs248910	rs37761	rs440607	rs2194256	rs1396474	rs981760
rs248912	rs1423471	rs411255	rs889305	rs1543951	rs1369288
rs187481	rs27224	rs615429	rs2113071	rs2016324	rs977418
rs153152	rs1645013	rs789396	rs2113072	rs1995780	rs977417
rs27960	rs1423472	rs37684	rs966220	rs1508865	rs977416
rs27564	rs27220	rs1445893	rs966221	rs952110	rs1529843
rs27565	rs1423473	rs37685	rs719702	rs1533019	rs1529842
rs26948	rs149079	rs1086121	rs2113073	rs2117552	rs1435077
rs40131	rs149324	rs42222	rs2113074	rs1545069	rs1369287
rs26949	rs153067	rs37707	rs2113075	rs1545070	rs1017410
rs26950	rs40354	rs37708	rs1035512	rs973700	rs1017409
rs26954	rs26951	rs37709	rs1559277	rs1583434	rs1435076
rs26953	rs153029	rs789389	rs1981848	rs1347401	rs1435075
rs152324	rs27223	rs1423247	rs1544788	rs1949017	rs1435074
rs35385	rs27222	rs874768	rs1544790	rs723962	rs978455

rs1827340	rs159621	rs1504982	rs298084	rs298027	rs295972
rs1393083	rs159625	rs877745	rs298083	rs298028	rs295971
rs988364	rs1435072	rs877744	rs298073	rs298029	rs295970
rs1017408	rs173945	rs2164661	rs298072	rs298030	rs295969
rs2053155	rs256356	rs981230	rs298071	rs169868	rs295968
rs181923	rs185351	rs1437124	rs1421400	rs177077	rs295966
rs1546364	rs256355	rs746477	rs402874	rs298032	rs726652
rs173942	rs2067024	rs893191	rs434368	rs298033	rs295965
rs159616	rs256354	rs1992112	rs371011	rs298034	rs1307218
rs159620	rs173944	rs298102	rs298063	rs298035	rs1307217
rs1501641	rs256353	rs298101	rs298062	rs298042	rs893190
rs159619	rs986400	rs2164660	rs298061	rs298044	rs1111495
rs159614	rs1504981	rs298100	rs298060	rs298045	rs295961
rs159613	rs1120533	rs298098	rs298057	rs298046	rs295960
rs159612	rs256351	rs298096	rs298056	rs298048	rs295959
rs159611	rs190458	rs298095	rs1370230	rs298049	rs295958
rs194368	rs256352	rs298094	rs297975	rs298050	rs296410
rs661576	rs171745	rs298093	rs297974	rs298051	rs295957
rs299627	rs1157709	rs1362942	rs379578	rs298052	rs295956
rs159608	rs1910790	rs1362941	rs920190	rs298053	rs295955
rs159609	rs1910789	rs298091	rs1865962	rs190936	rs295954
rs159624	rs1504985	rs298090	rs298018	rs298017	rs295949
rs1159470	rs1008709	rs298089	rs298021	rs298016	rs295980
rs159622	rs1027747	rs298088	rs298022	rs298015	rs295979
rs256349	rs869685	rs298087	rs298023	rs298014	rs295978
rs256348	rs869686	rs1421401	rs298024	rs2053229	rs1154587
rs1501640	rs924880	rs298086	rs298025	rs295974	rs296406
rs600611	rs1504983	rs298085	rs298026	rs295973	rs296405

rs295948	rs294478	rs37575	rs1457111	rs171800	rs403695
rs295947	rs953302	rs37576	rs1824154	rs187716	rs403672
rs295946	rs294479	rs1876209	rs2112911	rs258110	rs372309
rs295945	rs697075	rs190486	rs1551564	rs258109	rs424839
rs295944	rs294481	rs447261	rs2034895	rs258108	rs370891
rs1395334	rs294482	rs1506558	rs2081092	rs258107	rs434183
rs295943	rs294483	rs1108916	rs2112910	rs665836	rs444552
rs1035321	rs702545	rs921942	rs918583	rs392901	rs433565
rs294494	rs294484	rs924998	rs1840838	rs383444	rs1445918
rs722923	rs294485	rs176705	rs1350298	rs662643	rs441817
rs294495	rs294486	rs1156029	rs1990985	rs670169	rs433161
rs294496	rs702544	rs1156028	rs1379297	rs525099	rs428059
rs294497	rs702543	rs931857	rs1817248	rs669240	rs434422
rs294498	rs159194	rs931856	rs244569	rs381755	rs427433
rs294499	rs40215	rs931855	rs244568	rs454702	rs391377
rs294500	rs291118	rs1506557	rs244567	rs443191	rs414746
rs294501	rs1506560	rs462930	rs244565	rs380118	rs187368
rs294503	rs37569	rs458953	rs185417	rs2168649	rs244593
rs295936	rs291119	rs174039	rs258128	rs371775	rs244592
rs1395336	rs37571	rs2174624	rs258127	rs378970	rs244591
rs1395337	rs1870077	rs2135480	rs258125	rs401013	rs244590
rs294492	rs159195	rs992726	rs1348710	rs427748	rs181736
rs159196	rs37572	rs294474	rs1348709	rs427740	rs193447
rs159197	rs37573	rs294475	rs1971061	rs378869	rs2028842
rs172362	rs167161	rs988827	rs1541673	rs1902609	rs2028841
rs37579	rs37574	rs988828	rs1541672	rs389324	rs1823068
rs721784	rs1506562	rs1350297	rs258112	rs387647	rs1823067
rs697076	rs291122	rs1457110	rs258111	rs377451	rs1823066

rs244588	rs35275	rs2014012	rs531105	rs27691	rs464311
rs168641	rs40125	rs37353	rs27184	rs35310	rs149108
rs2059175	rs35274	rs187645	rs1445951	rs26689	rs153980
rs2059174	rs244577	rs1809012	rs1947090	rs27187	rs153961
rs1118965	rs35267	rs187644	rs26708	rs1445948	rs1867725
rs154028	rs35266	rs153981	rs2112959	rs26687	rs153965
rs151802	rs39672	rs255652	rs1445953	rs166260	rs153966
rs244580	rs958851	rs255650	rs26709	rs149506	rs1988803
rs1457145	rs244576	rs255649	rs26710	rs27722	rs467300
rs244579	rs244575	rs2194210	rs28055	rs26695	rs1664886
rs255812	rs244573	rs255648	rs26711	rs27773	rs1867724
rs154029	rs35258	rs255647	rs27723	rs1471429	rs1445947
rs185333	rs35259	rs154221	rs27185	rs1471430	rs42470
rs35289	rs40121	rs256752	rs27695	rs26705	rs1423308
rs35288	rs35261	rs256120	rs1445954	rs28054	rs27174
rs35287	rs35264	rs255635	rs27549	rs26703	rs168834
rs35286	rs40122	rs185325	rs455969	rs27898	rs27727
rs35285	rs35265	rs26686	rs26712	rs722010	rs27172
rs35284	rs35255	rs1031197	rs1867711	rs27957	rs676449
rs35283	rs721826	rs1031198	rs1867712	rs26702	rs27186
rs35282	rs244570	rs27183	rs26713	rs27548	rs2112957
rs35281	rs27171	rs28044	rs26714	rs26701	rs1023814
rs35280	rs1824159	rs27182	rs27547	rs27188	rs27175
rs35279	rs27170	rs545611	rs26715	rs27189	rs1445950
rs35278	rs27169	rs649476	rs27949	rs149084	rs2021384
rs40126	rs27168	rs1664896	rs26700	rs153968	rs736736
rs35277	rs2013979	rs149106	rs1306348	rs464787	rs745813
rs35276	rs889231	rs1374028	rs35309	rs153978	rs889229

rs1077978	rs1353749	rs2055295
rs2081106	rs1391651	rs1391648
rs1559252	rs1391650	rs2055298
rs2054443	rs1391649	rs1472456
rs922437	rs1391652	rs1553114
rs922436	rs950446	rs1542842
rs922435	rs950447	rs1498611
rs922434	rs1498599	rs1532520
rs716908	rs1498601	
rs1971940	rs1498609	
rs1559251	rs1498608	
rs1345791	rs1553113	
rs1345792	rs1353748	
rs1345793	rs1498606	
rs1105577	rs1353747	
rs1960	rs1006431	
rs1824788	rs1948651	
rs1862563	rs1498605	
rs1551939	rs1498604	
rs1038080	rs1498603	
rs997421	rs1995166	
rs1014317	rs1498602	
rs2059191	rs1077183	
rs1551938	rs1078368	
rs1186170	rs1874857	
rs986067	rs1874858	
rs954740	rs1909294	
rs1363882	rs1546221	

Table 10

New SNP's identified by deCODE

Position in patent	Variation	AA Change	Exon
732790	G/T		
735966	C/A		
736226	A/G		
736516	C/T		
850001	G/A		
852776	A/C		
853079	G/T		
853575	C/A		
856468	A/G		
860845	A/G		
870924	A/G		
1027267	T/C		
1027643	T/G		
1027757	T/C		
1028146	T/A		
1037657	A/C		
1044016	G/A		
1044045	C/T		
1254737	T/C		
1254849	T/C		
1255763	G/T		
1257206	A/G		
1258161	T/C		
1268007	A/G		
1268187	C/T		
1268553	A/G		
1272669	G/A		
1272910	A/G		
1273023	G/A		
1273220	A/G		
1273240	A/G		
1273543	C/T		
1288439	G/A		
1289730	T/A		
1290176	G/A		
1293745	T/C		
1344605	A/G		
1344864	G/A		
1345135	C/G		
1345286	A/G		
1346112	C/T		
1352976	A/T		
1354291	T/C		
1354377	C/T		
1354554	C/A		
1354675	T/C		
1355114	T/C		

1355693	A/G	1575634	A/T
1357081	A/G	1580088	G/A
1362985	T/G	1581078	G/A
1363021	C/T	1582418	T/A
1363827	C/T	1584580	A/C
1363911	G/A	1585955	G/T
1364061	C/T	1590608	T/C
1364066	T/A	1590672	A/G
1367904	A/G	1590673	G/T
1368193	T/C	1590837	G/A
1368217	G/C	1590936	C/A
1373349	C/T	1591011	G/A
1373384	A/G	1591047	C/T
1373415	T/C	1591306	C/A	Pro->Thr D1
1373979	T/G	1591583	T/C
1376149	G/A	1594788	C/A
1384931	A/C	1594994	G/A
1385093	A/T	1601831	C/T
1385107	G/A	1636902	T/C
1385445	T/C	1638550	A/C	Lys->Thr exon 4
1391418	G/C	1640663	T/C
1409210	C/A	1641954	C/T
1414804	C/T	1641960	C/T
1428284	T/C	1653881	G/A
1431800	A/T	1655748	G/A
1449904	A/T		
1574301	C/G		
1574615	C/T		

While this invention has been particularly shown and described with reference to preferred embodiments thereof, it will be understood by those skilled in the art that various changes in form and details may be made therein without departing from the spirit and scope of the invention as defined by the appended claims.

CLAIMS

What is claimed is:

1.   An isolated nucleic acid molecule comprising a phosphodiesterase 4D gene, or a
      fragment or variant thereof.

5   2.   The isolated nucleic acid molecule of Claim 1, wherein the phosphodiesterase
      4D gene has the nucleotide sequence of SEQ ID NO:1 which may optionally
      comprise at least one polymorphism as shown in Table 9, 10 or combination
      thereof.

3.   A nucleic acid encoding a polypeptide having an amino acid sequence selected
10   from the group consisting of SEQ ID NOs: 2-10, 12 or 14.

4.   An isolated nucleic acid molecule comprising a nucleotide sequence selected
      from the group consisting of SEQ ID NO: 1 which may optionally comprise at
      least one polymorphism as shown in Table 9, 10 or combination thereof, and the
      complement thereof.

15   5.   An isolated nucleic acid molecule which hybridizes under high stringency
      conditions to a nucleotide sequence selected from the group consisting of SEQ
      ID NO: 1 which may optionally comprise at least one polymorphism as shown
      in Table 9, 10 or combination thereof, and the complement thereof.

6.   An isolated nucleic acid molecule which hybridizes under high stringency
       conditions to a nucleotide sequence encoding an amino acid sequence selected
       from the group consisting of: SEQ ID NOs: 2-10, 12 or 14.

7.   A method for assaying the presence of a first nucleic acid molecule in a sample,
5   comprising contacting said sample with a second nucleic acid molecule
       comprising a nucleotide sequence selected from the group consisting of SEQ ID
       NO: 1 which may optionally comprise at least one polymorphism as shown in
       Table 9, 10 or combination thereof, and the complement thereof, under high
       stringency conditions.

10   8.   A vector comprising an isolated nucleic acid molecule selected from the group
       consisting of: SEQ ID NO: 1, the complement of SEQ ID NO: 1 SEQ ID NOs:
       2-10, 12 or 14, operatively linked to a regulatory sequence; wherein the nucleic
       acid molecule may optionally comprise at least one polymorphism as shown in
       Table 9, 10 or combination thereof.

15   9.   A recombinant host cell comprising the vector of Claim 8.

10.   A method for producing a polypeptide encoded by an isolated nucleic acid
       molecule, comprising culturing the recombinant host cell of Claim 9 under
       conditions suitable for expression of said nucleic acid molecule.

20   11.   An isolated polypeptide encoded by a phosphodiesterase 4D gene, or a fragment
       or variant of said polypeptide.

12.   The isolated polypeptide of Claim 11, wherein the phosphodiesterase 4D gene
       has the sequence of SEQ ID NO: 1 which may optionally comprise at least one

polymorphism as shown in Table 9, 10 or combination thereof, or the complement thereof.

13.   The isolated polypeptide of Claim 11, wherein the polypeptide has an amino acid sequence selected from the group consisting of SEQ ID NOs: 2-10, 12 or 14.

14.   An isolated polypeptide comprising an amino acid sequence which is greater than about 90 percent identical to an amino acid sequence selected from the group consisting of SEQ ID NOs: 2-10, 12 or 14.

15.   A fusion protein comprising an isolated polypeptide of Claim 11.

16.   An antibody, or an antigen-binding fragment thereof, which selectively binds to a polypeptide of Claim 11.

17.   An antibody, or an antigen-binding fragment thereof, which selectively binds to an amino acid sequence selected from the group consisting of SEQ ID NOs: 2-10, 12 or 14, or to a fragment or variant of said amino acid sequence.

18.   A method for assaying the presence of a polypeptide encoded by an isolated nucleic acid molecule according to Claim 1 in a sample, comprising contacting said sample with an antibody which specifically binds to the encoded polypeptide.

19.   A method of diagnosing a susceptibility to stroke in an individual, comprising detecting a polymorphism in phosphodiesterase 4D gene, wherein the presence of the polymorphism in the gene is indicative of a susceptibility to stroke.

20.   A method of diagnosing a susceptibility to stroke, comprising detecting an

        alteration in the expression or composition of a polypeptide encoded by

        phosphodiesterase 4D gene in a test sample, in comparison with the expression

        or composition of a polypeptide encoded by phosphodiesterase 4D gene in a

5   control sample, wherein the presence of an alteration in expression or

        composition of the polypeptide in the test sample is indicative of a susceptibility

        to stroke.

21.   The method of Claim 20, wherein the alteration in the expression or

        composition of a polypeptide encoded by phosphodiesterase 4D gene comprises

10   expression of a splicing variant polypeptide in a test sample that differs from a

        splicing variant polypeptide expressed in a control sample.

22.   A method of identifying an agent which alters activity of a polypeptide of Claim

        11, comprising:

        a)   contacting the polypeptide or a derivative or fragment

15   thereof, with an agent to be tested;

        b)   assessing the level of activity of the polypeptide or derivative or

                    fragment thereof; and

        c)   comparing the level of activity with a level of activity of the

                    polypeptide or active derivative or fragment thereof in the absence

20   of the agent,

        wherein if the level of activity of the polypeptide or derivative or fragment

        thereof in the presence of the agent differs, by an amount that is statistically

        significant, from the level in the absence of the agent, then the agent is an agent

        that alters activity of the polypeptide.

23.   · An agent which alters activity of a polypeptide encoded by phosphodiesterase
      4D gene, identifiable according to the method of Claim 22.

24.   An agent which alters activity of a polypeptide encoded by phosphodiesterase
        4D gene, wherein the agent is selected from the group consisting of: a
5   phosphodiesterase 4D gene receptor; a phosphodiesterase 4D gene binding
        agent; a peptidomimetic; a fusion protein; a prodrug; an antibody; and a
        ribozyme.

25.   · A method of altering activity of a polypeptide encoded by phosphodiesterase 4D
        gene, comprising contacting the polypeptide with an agent of Claim 24.

10 26.   A method of identifying an agent which alters interaction of the polypeptide of
          Claim 11 with a phosphodiesterase 4D gene binding agent, comprising:
          a)   contacting the polypeptide or a derivative or fragment
                    thereof, the binding agent and with an agent to be tested;
          b)   assessing the interaction of the polypeptide or derivative or
15   fragment thereof with the binding agent; and
          c)   comparing the level of interaction with a level of interaction of the
                    polypeptide or derivative or fragment thereof with the binding
                    agent in the absence of the agent,
          wherein if the level of interaction of the polypeptide or derivative or fragment
20   thereof in the presence of the agent differs, by an amount that is statistically
          significant, from the level of interaction in the absence of the agent, then the
          agent is an agent that alters interaction of the polypeptide with the binding
          agent.

27.   An agent which alters interaction of a phosphodiesterase 4D gene polypeptide
25   with a phosphodiesterase 4D gene binding agent, identifiable according to the
        method of Claim 26.

28.   An agent which alters interaction of a phosphodiesterase 4D gene polypeptide
        with a first phosphodiesterase 4D gene binding agent, selected from the group
        consisting of: a phosphodiesterase 4D gene receptor; a second
        phosphodiesterase 4D gene binding agent; a peptidomimetic; a fusion protein; a
5   prodrug; an antibody; and a ribozyme.

29.   A method of altering interaction of a phosphodiesterase 4D gene polypeptide
        with a phosphodiesterase 4D gene binding agent, comprising contacting the
        phosphodiesterase 4D gene polypeptide and/or the phosphodiesterase 4D gene
        binding agent with an agent of Claim 28.

10   30.   A method of identifying an agent which alters expression of phosphodiesterase
            4D gene, comprising the steps of:
            a)   contacting a solution containing a nucleic acid of Claim 1
                    or a derivative or fragment thereof with an agent to be
                    tested;
15   b)   assessing the level of expression of the nucleic acid, derivative or
                    fragment; and
            c)   comparing the level of expression with a level of expression of the
                    nucleic acid, derivative or fragment in the absence of the agent,
            wherein if the level of expression of the nucleotide, derivative or fragment in the
20   presence of the agent differs, by an amount that is statistically significant, from
            the expression in the absence of the agent, then the agent is an agent that alters
            expression of phosphodiesterase 4D gene.

31.   An agent which alters expression of phosphodiesterase 4D gene, identifiable
        according to the method of Claim 30.

25   32.   A method of identifying an agent which alters expression of phosphodiesterase
            4D gene, comprising the steps of:

a)   contacting a solution containing a nucleic acid comprising
        the promoter region of phosphodiesterase 4D gene operably
        linked to a reporter gene, with an agent to be tested;

b)   assessing the level of expression of the reporter gene; and

5   c)   comparing the level of expression with a level of expression of the
        reporter gene in the absence of the agent,

wherein if the level of expression of the reporter gene in the presence of the
agent differs, by an amount that is statistically significant, from the level of
expression in the absence of the agent, then the agent is an agent that alters
10   expression of phosphodiesterase 4D gene.

33.   An agent which alters expression of phosphodiesterase 4D gene, identifiable
        according to the method of Claim 32.

34.   A method of identifying an agent which alters expression of phosphodiesterase
        4D gene, comprising the steps of:

15   a)   contacting a solution containing a nucleic acid of Claim 1
        or a derivative or fragment thereof with an agent to be
        tested;

b)   assessing expression of the nucleic acid, derivative or fragment;
        and

20   c)   comparing expression with expression of the nucleic acid,
        derivative or fragment in the absence of the agent,

wherein if expression of the nucleotide, derivative or fragment in the presence
of the agent differs, by an amount that is statistically significant, from the
expression in the absence of the agent, then the agent is an agent that alters
25   expression of phosphodiesterase 4D gene.

35.   The method of Claim 34, wherein the expression of the nucleotide, derivative or
        fragment in the presence of the agent comprises expression of one or more

splicing variant(s) that differ in kind or in quantity from the expression of one or more splicing variant(s) the absence of the agent.

36.   An agent which alters expression of phosphodiesterase 4D gene, identifiable according to the method of Claim 34.

5   37.   An agent which alters expression of phosphodiesterase 4D gene, selected from the group consisting of: antisense nucleic acid to phosphodiesterase 4D gene; a phosphodiesterase 4D gene polypeptide; a phosphodiesterase 4D gene receptor; a phosphodiesterase 4D gene binding agent; a peptidomimetic; a fusion protein; a prodrug thereof; an antibody; and a ribozyme.

10   38.   A method of altering expression of phosphodiesterase 4D gene, comprising contacting a cell containing phosphodiesterase 4D gene with an agent of Claim 37.

39.   A method of identifying a polypeptide which interacts with a phosphodiesterase 4D gene polypeptide, comprising employing a two yeast hybrid system using a

15   first vector which comprises a nucleic acid encoding a DNA binding domain and a phosphodiesterase 4D gene polypeptide, splicing variant, or fragment or derivative thereof, and a second vector which comprises a nucleic acid encoding a transcription activation domain and a nucleic acid encoding a test polypeptide, wherein if transcriptional activation occurs in the two yeast hybrid system, the

20   test polypeptide is a polypeptide which interacts with a phosphodiesterase 4D polypeptide.

40.   A phosphodiesterase 4D gene therapeutic agent selected from the group consisting of: a phosphodiesterase 4D gene or fragment or derivative thereof; a polypeptide encoded by phosphodiesterase 4D gene; a phosphodiesterase 4D

25   gene receptor; a phosphodiesterase 4D gene binding agent; a peptidomimetic; a

fusion protein; a prodrug; an antibody; an agent that alters phosphodiesterase 4D gene expression; an agent that alters activity of a polypeptide encoded by phosphodiesterase 4D gene; an agent that alters posttranscriptional processing of a polypeptide encoded by phosphodiesterase 4D gene; an agent that alters interaction of a phosphodiesterase 4D gene with a phosphodiesterase 4D gene binding agent; an agent that alters transcription of splicing variants encoded by phosphodiesterase 4D gene; and a ribozyme.

41. A pharmaceutical composition comprising a phosphodiesterase 4D gene therapeutic agent of Claim 40.

42. The pharmaceutical composition of Claim 41, wherein the phosphodiesterase 4D gene therapeutic agent is an isolated nucleic acid molecule comprising a phosphodiesterase 4D gene or fragment or derivative thereof.

43. The pharmaceutical composition of Claim 41, wherein the phosphodiesterase 4D gene therapeutic agent is a polypeptide encoded by the phosphodiesterase 4D gene.

44. A method of treating stroke in an individual, comprising administering a phosphodiesterase 4D gene therapeutic agent to the individual, in a therapeutically effective amount.

45. The method of Claim 44, wherein the phosphodiesterase 4D gene therapeutic agent is a phosphodiesterase 4D gene agonist.

46. The method of Claim 45 wherein the phosphodiesterase 4D gene therapeutic agent is a phosphodiesterase 4D gene antagonist.

47.   A transgenic animal comprising a nucleic acid selected from the group
        consisting of: an exogenous phosphodiesterase 4D gene and a nucleic acid
        encoding a phosphodiesterase 4D gene polypeptide.

48.   A method for assaying a sample for the presence of a phosphodiesterase 4D
5   gene nucleic acid, comprising:
        a)   contacting said sample with a nucleic acid comprising a contiguous
                nucleotide sequence which is at least partially complementary to a
                part of the sequence of said phosphodiesterase 4D gene nucleic
                acid under conditions appropriate for hybridization, and
10   b)   assessing whether hybridization has occurred between a
                phosphodiesterase 4D gene nucleic acid and said nucleic acid
                comprising a contiguous nucleotide sequence which is at least
                partially complementary to a part of the sequence of said
                phosphodiesterase 4D gene nucleic acid.

15 49.   The method of Claim 48, wherein said nucleic acid comprising a contiguous
        nucleotide sequence is completely complementary to a part of the sequence of
        said phosphodiesterase 4D gene nucleic acid.

50.   The method of Claim 48, comprising amplification of at least part of said
        phosphodiesterase 4D gene nucleic acid.

20 51.   The method of Claim 48, wherein said contiguous nucleotide sequence is 100 or
        fewer nucleotides in length and is either: a) at least 80% identical to a
        contiguous sequence of nucleotides in SEQ ID NO: 1 which may optionally
        comprise at least one polymorphism as shown in Table 9, 10 or combination
        thereof; b) at least 80% identical to the complement of a contiguous sequence of
25   nucleotides in SEQ ID NO: 1 which may optionally comprise at least one

polymorphism as shown in Table 9, 10 or combination thereof; or c) capable of selectively hybridizing to said phosphodiesterase 4D gene nucleic acid.

52.   A reagent for assaying a sample for the presence of a phosphodiesterase 4D gene nucleic acid, said reagent comprising a nucleic acid comprising a contiguous nucleotide sequence which is at least partially complementary to a part of the nucleotide sequence of said phosphodiesterase 4D gene nucleic acid.

53.   The reagent of Claim 52, wherein the nucleic acid comprises a contiguous nucleotide sequence which is completely complementary to a part of the nucleotide sequence of said phosphodiesterase 4D gene nucleic acid.

54.   A reagent kit for assaying a sample for the presence of a phosphodiesterase 4D gene nucleic acid, comprising in separate containers:

   a)   one or more labeled nucleic acids comprising a contiguous nucleotide sequence which is at least partially complementary to a part of the nucleotide sequence of said phosphodiesterase 4D gene nucleic acid, and

   b)   reagents for detection of said label.

55.   The reagent kit of Claim 54, wherein the labeled nucleic acid comprises a contiguous nucleotide sequences which is completely complementary to a part of the nucleotide sequence of said phosphodiesterase 4D gene nucleic acid.

56.   A reagent kit for assaying a sample for the presence of a phosphodiesterase 4D gene nucleic acid, comprising one or more nucleic acids comprising a contiguous nucleotide sequence which is at least partially complementary to a part of the nucleotide sequence of said phosphodiesterase 4D gene nucleic acid, and which is capable of acting as a primer for said phosphodiesterase 4D gene nucleic acid when maintained under conditions for primer extension.

57. The use of a nucleic acid which is 100 or fewer nucleotides in length and which is either: a) at least 80% identical to a contiguous sequence of nucleotides in SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof; b) at least 80% identical to the complement of a contiguous sequence of nucleotides in SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof; or c) capable of selectively hybridizing to said phosphodiesterase 4D gene nucleic acid, for assaying a sample for the presence of a phosphodiesterase 4D gene nucleic acid.

58. The use of a nucleic acid which is 100 or fewer nucleotides in length and which is either: a) at least 80% identical to a contiguous sequence of nucleotides in SEQ ID NO: 1; b) at least 80% identical to the complement of a contiguous sequence of nucleotides in SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof; or c) capable of selectively hybridizing to said phosphodiesterase 4D gene nucleic acid, for assaying a sample for the presence of a phosphodiesterase 4D gene nucleic acid that has at least one nucleotide difference from SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof.

59. The use of a nucleic acid which is 100 or fewer nucleotides in length and which is either: a) at least 80% identical to a contiguous sequence of nucleotides in SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof; b) at least 80% identical to the complement of a contiguous sequence of nucleotides in SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof; or c) capable of selectively hybridizing to said phosphodiesterase 4D gene nucleic acid, for diagnosing a susceptibility to stroke.

Fig. 1A
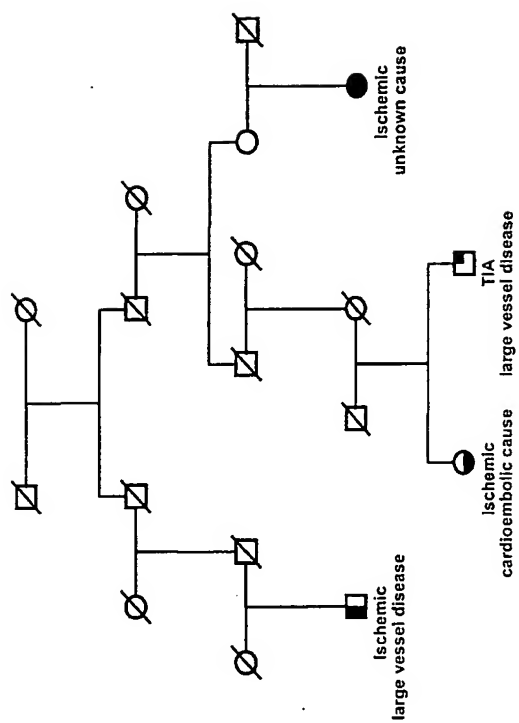
Fig. 1B
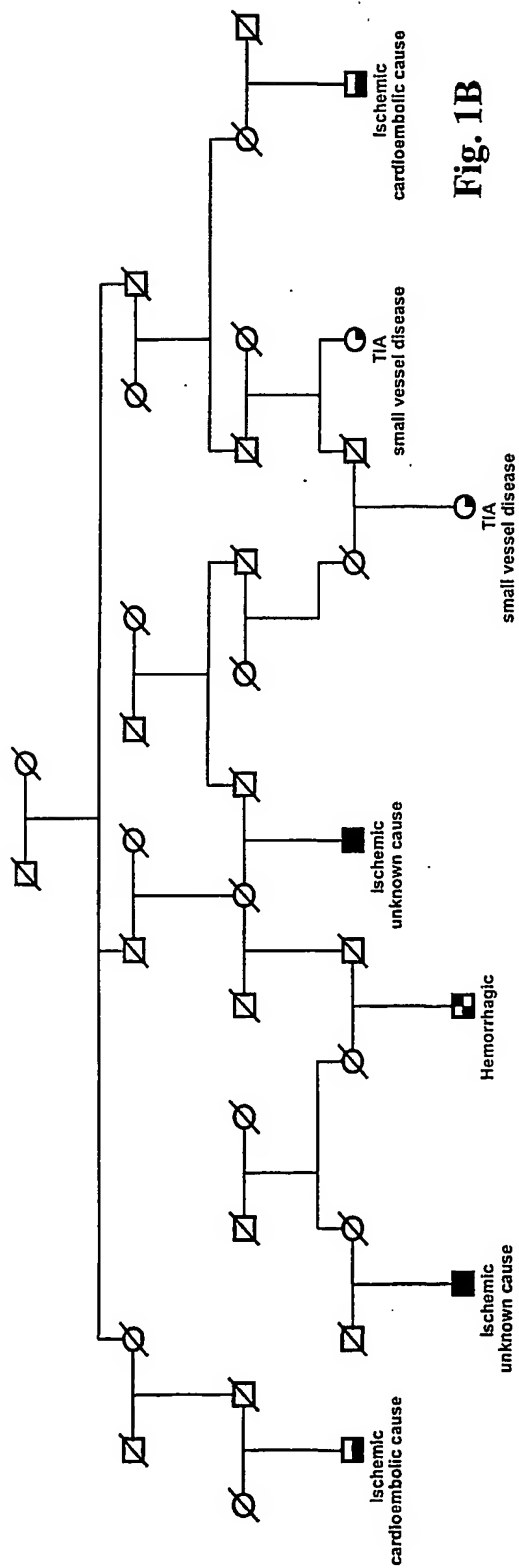
Genetic map   Combined map - cM   Physical map - Mb
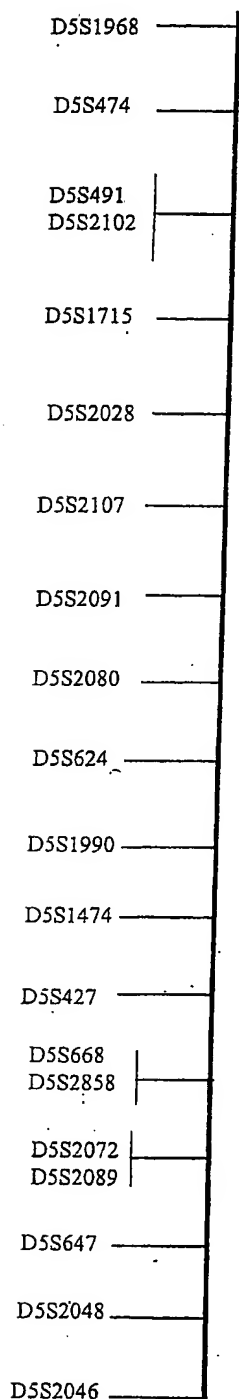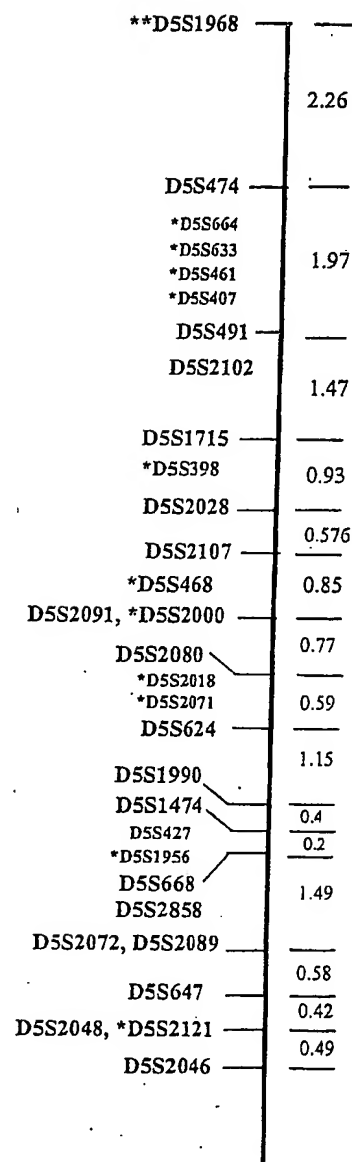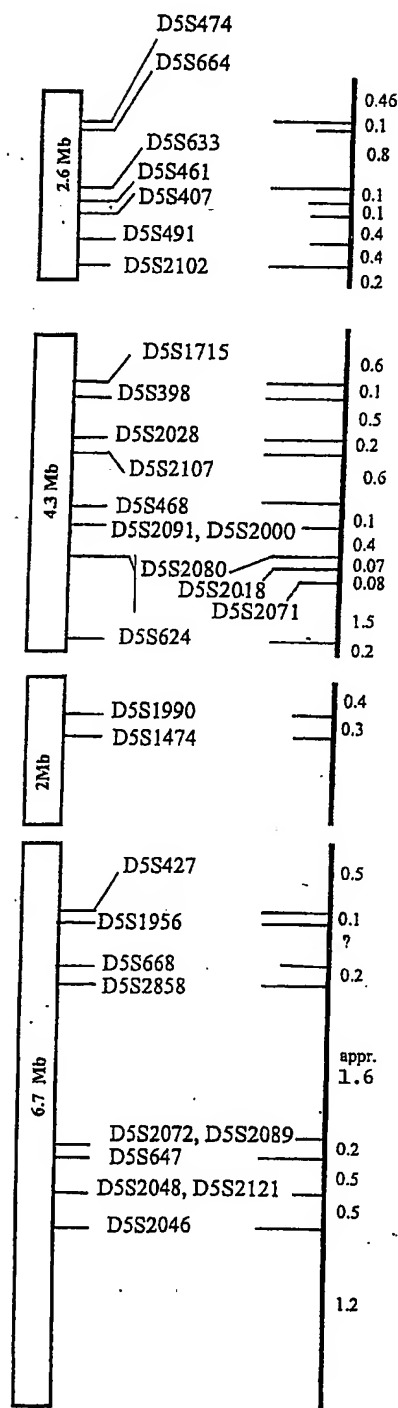
*Markers only assigned in physical map
**Marker in blue - only assigned in genetic map
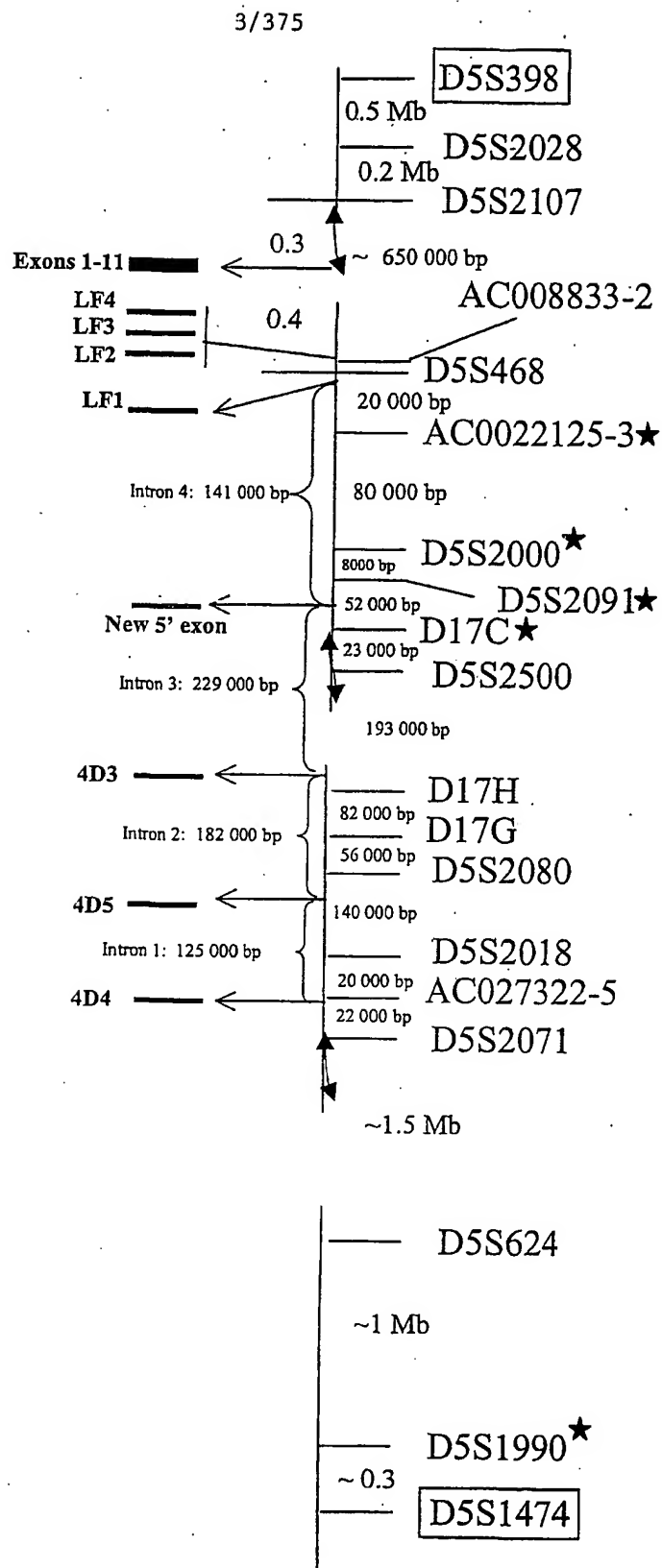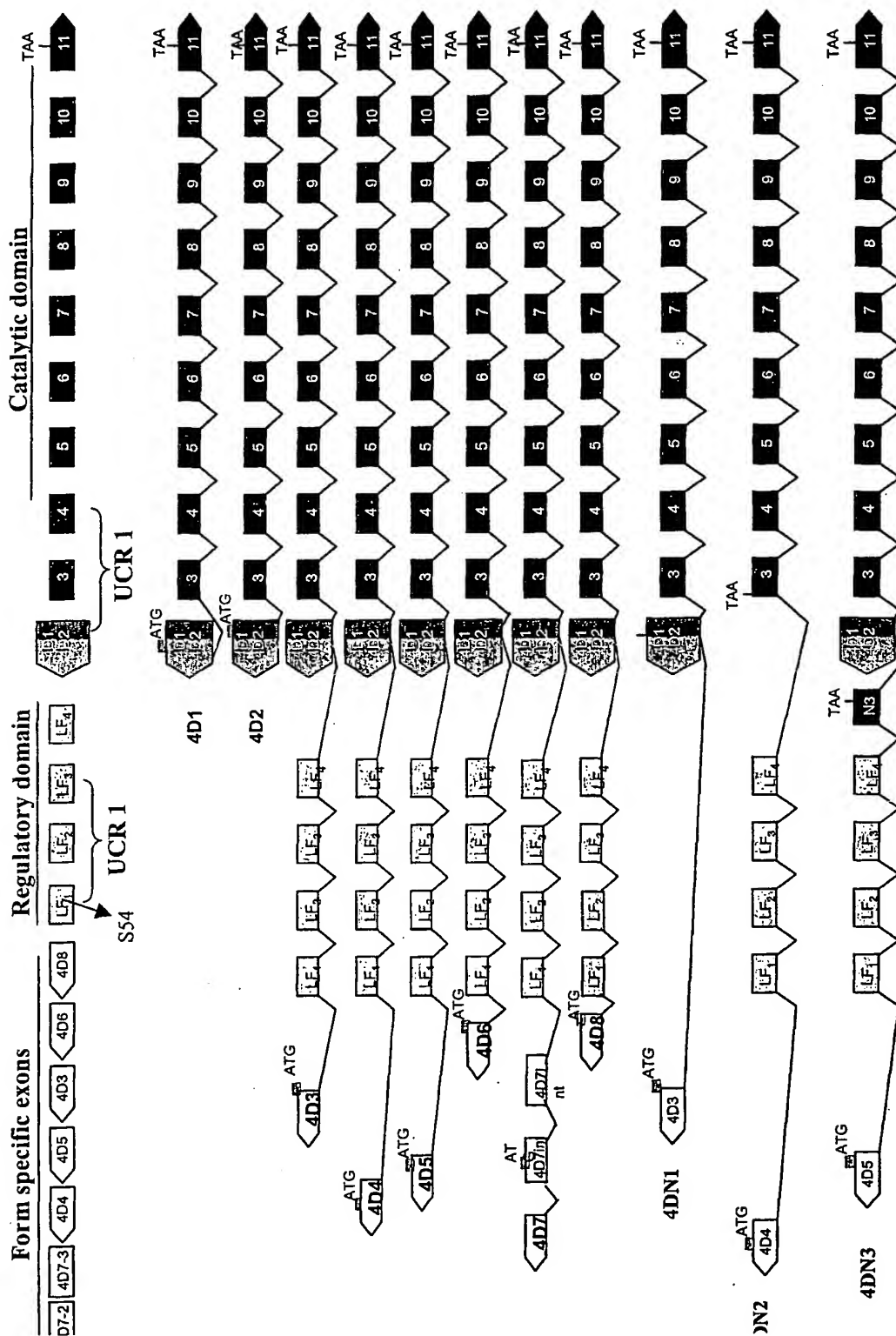
Fig. 2A   **Fig. 2B**   **Fig. 2C**

Fig. 3

Fig. 4
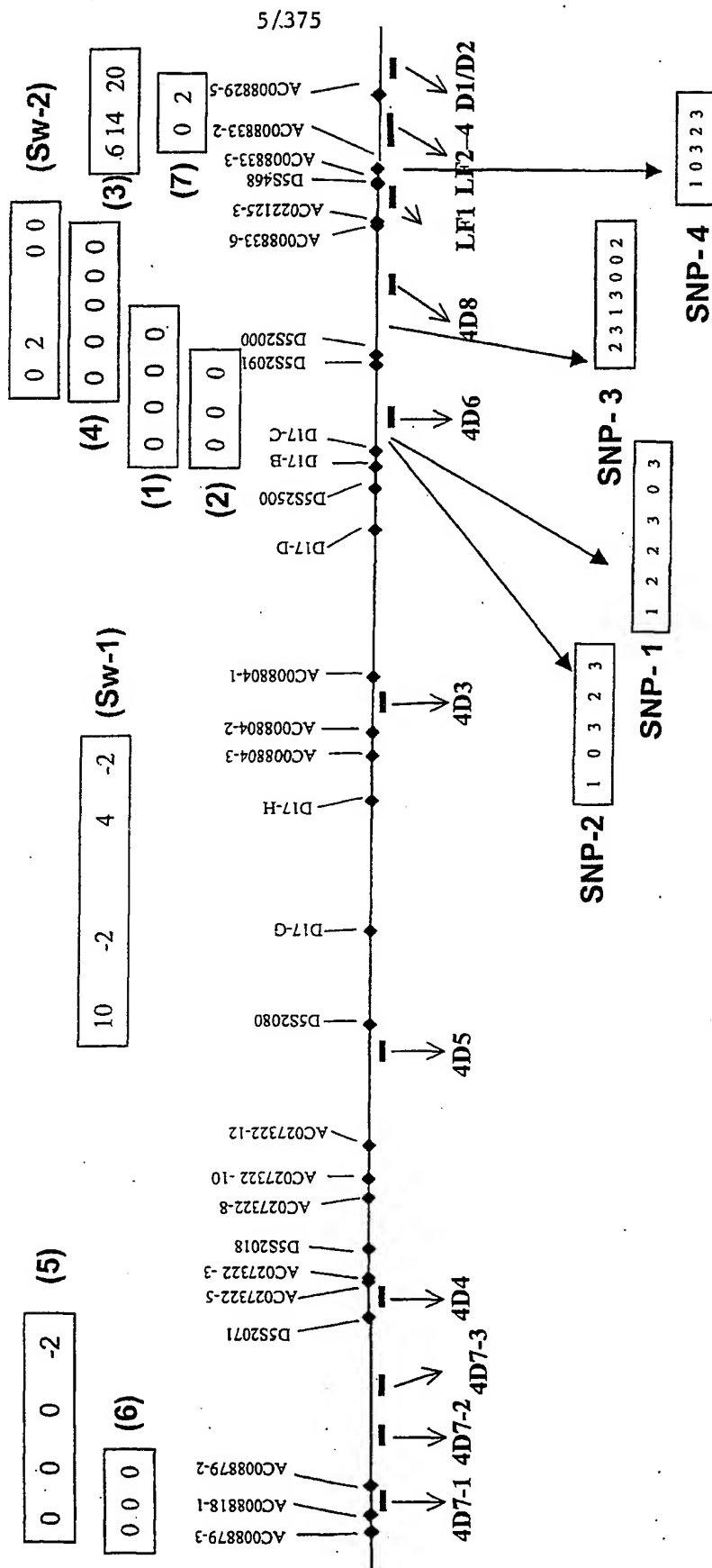
Fig. 5

>Contig_2 (1,1691140)
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Fig. 6.1

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Fig. 6.2

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AGCTGCGTTCCTTTGGAGGAGGAGAGGTGCTCTGATTTTTAGAGTTTCCAGTTTTTCTGCTCTGTTTTTCCCCCATCTT
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Fig. 6.3

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GCAATGAGCAAGGCTCCGTGGGCATAGGACCCTCCGAGCCAGGCACGGGATATAATCTCCTGGTGTGCCATTTGCTAAG
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ACCCACTGTCCTGCACCCACTGTCCGACACTCCCCAGTGAGATGAACCCGTTATGTCAGTTGGAAATGCAGAAATCACC
CGTCTTCTGCGTTGCTCACGCTGGGCACTGTAGACTGGAGCTGTTCCTATTTGGCCATCTTGGTTCCATCCCCCCTACT
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CCAGGTTCAAGTGATTCTCCTGTCTCTGCCTCCTGAGTAGCTGGAATTACAGGCATGTGCCACCATGCCTGGCTATGTT
TTGTATTTTTAGTAGAGACAGGGTTTTGCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCGC
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GGCACCAGAGGCCTAGCTTGTGACTTCTCTCAGCTTTTGACCTGCCACCCTTACTAAGGTCAATAGTTTCTTTTTGATTT
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Fig. 6.4

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ATTGTTGTGTCTGAGGGAATAGAGAGGCCCAAAGGGAGGGAGAGAGACAGGGGAACCACCTGTTGGTGGAGCAGTCAGA
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Fig. 6.5

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TTTTTTTTTTTTTTTTTGTAGAAATGGGTTCTCACTATGTTGCCCAGGCTGGTCTCAAATTCCTGGCCTCAAGTGATCC
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Fig. 6.6

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ATAATAGTAGTTAATATTTACCTCATAGAGTTTTTCTGGGGAATTAAAACATGTGATTAAAATACATGTGGGCTTAATA
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TTGCCGTCAAATTAGTCCAGAGGAATTTGAATATCAAAGATCATATGGCTCTCAGGAACCTCTGGCAGCCTTGTTGGAG
GAAGTCATAACAGATGCCAAACTCTCCAACAAAGAGAAAAAGAAGAAACTGAAGCAGGTAAAAGGATATTCTTTATAAG
CCATTTTTTCTCCTCCCTACTGTTTTTATGTTTTTTTTTTTATTTTAATAGGCTTCATGTAAATCTCATCTTCTGAGCC
ATAGCAGTTTTCTAAGTATATTAGTTCATACATTCTAGAAGTCTCACTGATTTACACACTTGTGGTCAGTATCCTAGAT
CTTTATTCTTCAGTGTAAATCTGTTACCATTGCCAAACTCTTCATTTTTGGAGCTATTCTCTAATATTTGTCCTTTGTT
TTGGTATGTGGCATGATGTGAATTAGCAGAGCATCTGCTTTAATCTCAGAGAAGCTATCAGTGAGGGTGGATTTCTTTT
CATGTTTTCAAAAGGCAAATCAGATGGAATTCACAGGTGTAAAATGTTTAGAGTTTAAAAGCCGTTGGTTTTAGATAGC
CACTATCAAATTAGTTTCTTGCCTCAGGTATCAGTACAAGTTTTTAGTTCCTCTTATGTTAGGGGAACACAGCTTAGGG
TTCCAGCGAATCGTTTTTAACTCACAATATGTTACTTTTGACTATTCATAAAGGTTGATCCATGATCAGGTGAGTGGTT
TTTGTTTTTAAAGACTGAACTCTACATAGTTGGATTCAGGGAACACCGTACATGTGGGATTACACACAGAGCACCAGAG
TTCTGGGCTTCTGATCATATTATTCTCAGAGTAATTTTGGAGGAGAGTTTAGTGGTAAAGATCAACAGAAAGTATACTG
CCTCTCTTTTAAGCTTTTCACAAAGTAATATACACCAGAATATTCCCTCTTCCATTTGAGCAGAAGCTGGTGGGGCTGA
GTTGGAGAAACAGAGAAATGATGAAATGTAATTGGGCCAAAATTTTATTTAACTGTGTAGAACAGAAGTTATTTTGAAG
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AATAAACAAAAACAGGAAAATACAGGCTCAGAAACTCTTAAAATTTGGCTGCCAAATTTTATTGGCTTTTATGTGTCTT
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CCAACCATTTCAAAGAACTAGAAGTTTTCGAATGTAATAATACTTCCACAGCAACAGGTGCTAGAGACCACTGTTGTTG
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GATAAAGATTGCCTTAGTTTTTAAAAATGTTTGGCCATTAGTATTTTTATAAAACTCAATGCTAGTTTTAAAGTGTATA
AATTGGTTAAAATTTATGAGTCAAATATATAGTGATAATGTTAACATGTTTGTAATTGCTACAGAATTTAAGGGTATTT
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GCCTTAAGACTTAATTTTAAGTCTTAAAAATAGCGTGTATACTTGAATAAGAAAGACACTGGGTACTGTTACTGTGATG
CTATTGACTTAGTAGCCAATTATCATTTCTCCTGTATAAATTCCAGTTTTTATTGCTGCACATAAATTTTTTAATGTCT
TATATTGTGATAGCTATGTCTTTTATTGCAGATTTATTGGATGTTATGACAGATTTTACTAAAGCTAGTGTTTTTATAA
```

Fig. 6.7

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CATATATATTAGTTGATGTTTACCTATAAGTGGAGTAGATTTTCATCTGCCTGCAATGGTATAATTTCAGTCTTAGCTA
AAAATGGAAAGTTGAACTGGATAAATTCTTTGGGTACCCTTAGACCTCTGATTCTAAGTCAAATGCAAATGGGTTAAAT
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TCTTCATCAGTCATTTATTTCTATGAGAAAATGAAAAGTAAGATTTGGGCTTTTGTACTGACTGGTCTTTAGGTGAGCA
CTTTGCCAATTTTTTAGCATTGCTTTGTCCTTTTGTAAAATTGTGGTGCACTTGGATTATGGAGCATCTGAAAGTCTTC
CTCTGAGCGCAATTACCCAGAAAGCTGAGAGCAACACCCACTAATTGGCTTACAGTACTCCTTGGACTGATTTTTCCTT
GCACTTAAGATTTGCTCCTGTTCTCTTGTAGCAAAATACCTCCTACATCTGATGCAGATTTTGCTTTTAAAAATGGACC
AAAGTATTCCTATTGGTTTGGGTACCACCTTACATTCCAAATACATAATGTAATGGGAGATTTTTAGTGTTTCAGGATT
CATTCTCAGACTTTGGCATTCTGTTTAGAGCCAAGAATAATTCTTCTTTCTGCTCTATTTTCACTCCGAGGTAGAGTTT
ATTTTTCAGAATCTCTTTTCCTGTTGCTTGTCTTTGGAAGTATATGTGGTTGTTTCTTTCCTTTTTTTTTTAAGATTA
CTTTTTTAAAAAAATATAACATATTTATGGAGAGATCATAAAACATAAGCACCAATTAAGTGTGAAATTGATGAATAGA
TAATAGCAGTTATCCAAAGTGGTTGTCCCAATTAACGCTCCCATTAACAGTGTATGAGAACTCCTTTTGTTAATATCC
TCACCGAAACTTGCTATCGTCAGAGTTTGAAATGTTGTCAATGTGGTGGTTATTAATAGTGTCTGATTATGGTTTTATT
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TTGATTGTATTATATGTATAAATCAATTTGCAGAGAATTGCTGTCTACAATATTAGGTCTTCTAGTCCATGACCATGGT
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AGTCCTAGATGACATCTTCTGCCAATAGAACGCTGTTTTATCTACAGTGAAAAGCTATTGTTTAGTGCAACCACCTTCA
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CTGGAGTGGTGCTTTTAATTTCCTTCAAGAACTATTCCTTTCCACTCACAACTTGACTAACTGTTTGGCACAAGAGACC
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GCAGAGGTTGCAGTGAGCCCAGATCACACCACTGCACTCCAGCCTGGGTGACAGAGTGAGACCCTGTATCAACAAAACA
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GGAATAGAGTGGGGATCGCAGCAGCATCATCTTGCTCCTAATTTCAAAGAGGAGGTTTTTAGCATTAGAGTATTTGTAG
ATACCCTTTTATAATTTTAAAAGAAGTTATTTTCTATTTCTATTCTATTGTCAAAAAATTTTTATTGCTCGTTTTAACC
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GGGGTTATATTACATTAATTGATTACTAATATTAAGCCACTTTGCATTCTAGGAGTGGCATAAATCTAATTATGATGTA

Fig. 6.8

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TTATCATTTGAATATATATATCTAGATTCTGTTGCTAATATTTAGTTTATAGTTCTTGTATCTATGTTCATGAGTAAAA
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TTGTTTTATTTTTAGGTATGATTTTTATAGTATTTTTCATTTTTATGTATAATTGCTTTTATTTTTAGGTATGATAAGT
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TTTTTATTTCTCACACGTCTTTGTGTTCCTGCATCTGCCTTCAGGGAAGTCGTGTCTGGGAGTCTAGCAAATTTAATAG
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AGTGTAATACCTTGACATCACTGGGTCTTCCAAACAAGTTGCCGTAAAACATAAACTATGATTATTGAGTCTTAAAGAA
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ATCAACTTGGAAATATATTTCTTATTTAATTTTGTAGAACAAATATACTTCCTGGGATAAGTGGAGGATATATTAAGTA
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GTATCTAGAGCCTTTTCTAGGGAATATAACAAAAGCTTTTCTCCCTCTTCTAGCCCCCACAAATTTTACATCTTGCTGC
CAGCGTATCTTTCAAAATAATAACAAGGTAGTCTTCTTGAGTAGTTTATAATGGATTTCTTTCTATGTTTAATAAAGCA
AATGAAACTTAATTTTTAAAAAAACTAGAGGACTAAAAATTATTTTCATGAGAACTAAGTAAAATATAATTGATATTTG
TATTAGTCCATTCTCATGGTACTATGAAGAAATACCTGAGACTGGGAGATTCATAAAGAGAAGAGGTTTAACTGACTCA
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Fig. 6.9

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CAGTTCTGCATGGCTGGGGAGGCCTTAGGAAACTTACAATCATGGTGGAAGGTGAAGCAAACACATCCTTTTTCACAAG
GCGACAGGAGAAGAAGCGCCGAGCAAAGGGGGAAAAGCCCCTTATATAACCATCAGATCTTGTGAGAACCCACTATCAT
GAGAACAGCATGGGGATAACTGCCCCCATGATTTGATTACCTCCCACTGGGCTCCTCTCACGACACGTGGGAATTATGG
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AATCATGTAGCTGATTCACATGCGTTATTAGACCATGATAAGAAGCACAGAGGAAATATAACAAATGAAATCAGCCTTC
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GTGTTGATAGTTATTGTATCATAAAGGAAAAACTAGGGATTTTATGTTTAAGTCCAGTATATTTGATATAGGTAGTAAG
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TGGTAGAAATGAACAATTATCTAAACGTAGCAACAGATAATTTGGGATAAATGTCAGATTATTGGATTTGAAACTGAAA
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TCTTCTCTGCAATATGGGGACAACTGTGCTTGTTCTCTTTCCCTCAGATAAATCTTGTTTTATTCCTCAGACTAATGTT
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TTGGAGTTGTTGATGCCAAAATACAATAAGCAGTCAAACCAGCATAGCCCAGGAAACATCTTTGAGGTTACTGAGATGA
TAAATGACTTTACTGCAGGTAGATGGTGTGATGGAAAGAGCAGTGTGTTAGCAGCAGTGGTTCTGCCACCAGATAGCTT
GAGGAGGCTTTAATTTCCCACACCTTAAATAAACATAATTAAGTAAACTGTGTTTGCTATGCAAATACAGTCTAAAAGC
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CCTTTTTATAGTATTATCAATGTTCATGGCAATTTTCAGTAGCTTGGGGAGCTGGGTATGAGAGTTGGCACAGAGCTGC
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TTCCTTAATTGCCTCAATATAAAATGAGAGTATTAAATAAGCATCTCTAAATTATTCCCAATTTCATTAAAATGTTCTT
GATTTGATAGCCCTTTTGTGCACTGAAAGATGTAAAATATTCCAATTACATTGTTGACTATTCATAGTCAGTTCAATGT
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CTCTCAGAAAATATCTTTCAGAAGTAGCTCTGTGTGCTCAGACCCCTGGAACCAGTCATTCTGCTGCAACAGAGGCCTG
TGCTTTCCTATTGCCACCCATTTTCACTGCTCAGTGGCCTCTTCAGATATTAGTGCTATTTCCATAATTCTAGTTGCAT
ATGCTTTTTTGTTTCTTACCTATGCCACTTAAATATTGTGACATTTTGGGAGCACTTAAACATTTACTTCAAAACTTCA

Fig. 6.10

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CATCTTTGTGGTATTTTTCTATAGTAACTTGTGGTTGTTAGAAATGCTGAAAATAAATGGTGCTGGGATAACTGGGTAG
TTAAATGTGGAACATTGAAACTGGACCCCTTTCTTTCACCATATAGCAAAATCAACTCAAGATGGATTAAGGATTTAAA
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Fig. 6.11

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Fig. 6.12

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Fig. 6.13

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GTCCCTTCTTCCTTTGGCAATGCCTCTTAAATCACAGTTGTGTTGGTTGAACAGCTCTATGAATATATGAAAAGCCACT
GAATTGTGCACTTAATTGGGTGAGTTGCATGGTATGTAAAATACATCTTAATAAAGCTGACACCCCAAGAAAATCACAG
GAGAAAAAAATCGTACCGAGTTAATGGTATATAATGAAAAGAAAAATTGATGTTCAGTGCCTACTGTGTACTAGAAA
CTTACAAATGGACAGATATATGAGTATCAAAATCAAAAGTGCACAGCAACCTAAAACAGCTCTGTCACCCAGGCTGTAG
TGCAATGGCCTGATCATGGCCTATTGCAGCCTTTGCCAAAGGAGCTCAAGGGCTCCTCCCACCCCAGCCTTCGGAGTAG
CTGGGACTACAGGCATGCACCACCATGCCTGGGCTAATTTTTTTTTTTTTTTTTGTAGAGATGGAGTTTTATCATGT
TGTCCAGGCTGGCCTTGCACTCCTTGACTCAAGCCATCTGCCCATCTCAGCCTCTCAATGTGCTGGGGTTAGAGGGATG
AGCCACCATGTCTAGCATAGAGTTGTATTTCTAGGTTTAAAGTAATTAAATTATGGATCTGCAAGCCCAAATAATTTT
TATAAGTTATAATTTTTCTTATTAATTATAAAGTATTCCCAGGGACTCTGTGAAGTCCTGTTATGTCTGGGCTCACGTA
TGAGGCACACAAGGCAGGCAGTAÀTGAGACTGCTTTTAATCTGTAAATATATAAGTAAACATTCAAATTAATTCCATTA
TTTTAAAGAGTGAGATTAAGAAATGTTAAAATGCACTCATTTTAACAATGTTTCCATTGTGCAAAACATTTTTGGCATT
ATTTGTCTTTTTCAGGCAGGAAAACCAGTGTCAAAACTTTATAATCATGTCTTATTTCTGTGTGTATGTGTCCACATAA
AGTATTAATTAGCATCATTGCTTGTTTCCAAATGCCTTTTGTCTGTTTCAAAACTCAAATCTACCATTAAAGGAAAAAA
AAATTCACACAATTGAGAATATTCCAAAGAATGGGCCTAATGGGGATCACAGAACTGATTGGAAGACTGAGACTGAAGA
TCTAGGCTCAGAAATTTGGCATGAATCTTGGCAGTAGGTGACACAGTTCAGGTCACACCACAAAGCAATCTGGTGTAGC
ATGTCTCACTGGCATGGCCACCATTAGACTTTATCCTCACTAGCACCAATTGGCAATGGAGTGTTGTACCACTTCCTTT
AGATGCAGTCATCCCAGGTGGGAGTGTTCGTGCAAGCCAAGCTTATGTGCCATGCACCAGATGTCAGTGGATGGGGGTG
TGTGAATCTGTTAGGTAGCAGAGCACAGTTTGCCACCAAAATATACACAATGTAGCATTTCCCCACAATTGCCCATTAA
AAATCTTTTACATTAAGCATTACTGACATTATAGAAGTGTCTTTGGATTCTTTTATTAGTTAAGGTGAGCATATATTAC
GTTTGTAATTTTAAGTCGAGTACATAATAATTATAAAAGAGAGATTTTTATTCTTTCAAGTTTCAGGTACAGAGATAGT
CTCTTTGCTTCGATATAGGGTACACTAGAGAGGGTTGTACACCTCAGTTCATTGCTCCACACTCTCCCAGCAGGGAGCA
TAGAACCTTGACCTTTAGAACATTCCACTTAATGGTGCAATAACCTGTATGCAGTGTAAGCTGGTAGGAGAAATCAAGT
AAGAAGAGGAAAGAAATGGCCATAAAATGCCCACACATTTCCTCTTCGCCCCCACCCGCCCCTCCAATCATAAGTGATG
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Fig. 6.14

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CTCCATTGGGCACTCTTTACCTCAACTTAAGTTTCACCTTTTTCTGGTTTGGAAAGGGAAAACTACGTTTTTTTGTTTT
GAGACGGAGTCTTGCTCTGTCACCCAGGCTGGAGTGCACTGGTGCGATCTCGGCTCACTGCATCCTCCCTCCCAGGTTC
AAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGTGCCCGCCACCACACCCGGTTAATTTTTGTATTT
TTAGTAGAGACGGGATTTCACCATGTTGGCCAGGATGGTCACGAACTCCTGACCTAAGGTGATCTGCCCTCCTTGGCCT
CCCAAAGTACTGGGATTACAGGCGTGAGCCACCGCGCCCATCCAAACTACATTTTTAAAAAAAGTTAAAAAGCAAAAAC
GAAACAAAAGTTGGGAAGGCAAGTGTTCTGTTCCATTTCATTAGGAGGCTGACTCTCTAGGAACCTCTCCTGGTCGCTG
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AGAGGTAGGAATAAGGCATGGAAAAATATAAATGAGTAAATATAATCCTTGTTACCTTGGAATAATTGGTGATAAAGTG
CAGGTGCATCTTATTTTCATTCTATCAAGTCGTTTTCTAATTGGATGTTCTTGAAACAGTGGCTCATTGCTTGTACTTG
TTCACTCCTATTTTCTTGCTACTATCCTGTTTTGGGGGCAGGGCAACTCTACCCTGGGGAACGATCAAATGTTTAGGCA
AATATATCCTGGTGTTATAAGCTCATTAAATTTCTTGTCATTTCTTGCAGTGTGCTGGGAAGTGCTGTTTGTGGCCCGT
TTTTGCAATGTAGAACCTCTCTTTTGTGAGAGCCATGGAAGTTCCTTATTTGATAATTAGTCTCTTGCTTTAGGCAGTG
CCATTAAGAACTCCATATAAGCTGCCAACACTTTGTGGATGTGCAGAACCCCGTAAGCTTCCTATAGCTACTATTGCAA
GTAAAATTTTCAGATGCTTCTGAAGTCTTACCCACTTATCTTGGCGTAGAGGTTCTCAAGCTTCAGCACTGGAGGATCA
CCTGGAATTGCTCGTTAAGACACACATTGCTGGGATCCACCTCCAGGGTGTCAGAGTCAAGTCTGGGGTGAAGCCTGAG
AATGTGCATGTCTAACCAGTTCCCAGGTGATGCTGATGTTGCTGGTTTTGAGACTATATTTTGAGATTAAGAACTGCCT
TGGATTAAGAGCTGACCTGCGATCTACAGCTCAAATAGTGAAGTAAACATCCTAAAGAAAATGGAAAAACCAGTGCAGT
GAGTGATTGAATTACTATTTGTTCAATATCACAGAGAGCATAGTATTACATAAGGGCTTTGGGGAATATTTTAGGTAAG
TATATATAACTCTTGCCACCTAGGATGTTCATAGTAACTATAAGACAGTATTTTTGTTTTCCAAGTAATTTTAATGATC
CTGTAGATCCTCTTCCTTTTTGTATATAATATCAATCTAATAGTTTCTTGTTTAATATAAAAATGAAATCTTATTTTAC
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GCTTCAAAAAAAGCTTTGCAAATATGTTGCAATAATACGAATGATTTCAGTGTTGAAATCCATTTGTGAAAGCAGGCTT
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TCCTGTGTCCATGTGTTCTCATTGTTCAGTTCCCACCTATGAGTGAGAACATGCGGTGTTTGGTTTTTTGTCCTTGCAA
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TGTTTTGGTACCAATACCATGCTATTTTGGTTACTGTAGCCTTGTAGTATAGTTTGAAGTCAGGTAGCATGATGCCTCC
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GCAATTGTGAATGGGAGTTCACTGATGATTTGGCTCTCCGTTTGTTATTGGTGTATAAGAATGCCTGTGATTTTTGCAC
ATTGATTTTGTATCCTGAGACTTTTCTGAAGTTGTTTATGAGCTTAAGGAGATTTTGGTCTGAGACGATGGGGTTTTCT
AGATATACAATCATGTCATCTGCTAACAGGGACAATTTGACTTCCTCTTTTCCTAATTGAATGCCCTTTATTTCCTTCT
CCTGCCTGATTGCCATGGCTAGAACTTCCAACACTATGTTGAATAGGAGTGGTGAGAGAGGGCATCCCTCTGTCTTGTG
CCAGTTTTCAAAGGGAATGCTTCCAGTTTTTGTCCATTCGGTATGATATTGGCTGTGGGTTTGTCATACATAGCTCTTA
TTATTTTGAGATACGTCCCATCAATACCTAATTTATTGAGAGTTTTTAGCATGAAGGGTTGTTGAATTCTGTCAAAGGC
CTTTTCTGCATCTATTGAGATAATCATGTGGTTTTTGTCTTTGATTCTGTTTATATGCTGGATTACGTTTATTGATTTT
CATATGTTGAACCAGCCTTGCATCCCAGGGATGAAGCCCACTTGATCATGGTGGATAAGCTTTTTGATGTGCTGCTTGA
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Fig. 6.15

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TTCGGTTTGCCAGCATTTTATTGAGGATTTTTGCATCAGTGTTCATCAAGGATATTGGTGTAAAATTCTCTTTTTTTGT
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GATTGGAATATTTTCAGAAGGAATGGTACCAGCTCCTCCTTGTACCTCTGGTAGAATTCGGCTGTGAATGCGTCTGGTC
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CCGCTATTAGTCTGATGGGCTTCCCTTTGTGGGTAACCCGATGTTTGTCTCTGGCTACCCTTAACATTTTTTCCTTCAT
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TACCCTTTCTTCCAGTTGATCGAATCGGCTACTGAAGCTTGTGGATGCATCACTTAGTTCTCGTGCCATGGTTTTCAGC
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CGTGGGCGTGGGACTCTCCGAGCCAGGCNCGGGATATAATCTCCTGATATGCCGTTTGCTAAGACCATTGGAAAAGTGC
AGTATTAGAGTCGGAGTGACCTGATTTTCCAGGTGCCGTCTGTCACAGCTTCGCTTGGCTAGGAAAGGGAATTCCCTGA
CCCCTTGTGCTTCGCAGGTGAGGCGATGCCTCACCCTGCTTCAGCTCACACTCGGTGCACTGCACCCACTGTCCTGCAC
CCTGCAGTGTAGCAAAGTTTGAAATGTAGATAGCCAGAAGTCAGTCTGGGGGAAAGCAATTCCAATTTTCAAGCTTGTA
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GAAACATGCTGTCATAATAGAAACAATATGCCTACATCTCCGTCTCTCTTTCTGTGTGTGTGTGTATGTATGTGTGAAG
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TTCCAGATGAAATGGCAAACATTATTTCCAGCAATGTGATAAAACAACCAAAGAAAGTGTTCAAGTGACCCGATTCATA
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ACCAAATCCAGCCTACTGTTTTATTTGTAAAAAATTACATTTGAACACAGTCCTACCCATTTATTAACTTACTGTTTAT
CACTGCTTTTGTTCTAGAAAAGCAGAGTTGAGTAGTTGAAAAAAAGACTGTGGCCAGGCACAATGTCTCATACCATAAT
CCCAGCACTTTGGGAGGCCAAGGTGGATCACTAACTGGTCACTAACTCTTGGGCTCAAGTGGGTGGATTACTTTAGCCC
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GTGAACCTGTAGTCCCAGCTACTGGGGAGGCTGAGGTGGGAGGATGACCTGAGCCTGGAGGTCAAGTAAGGCTGCAGT
GAACTGAGATCATGCCACTGCACTCCAGCCTGAGTGACAAAGTGAGATCCTATCTCCAAAAAAAAGAAAAAAAAAAAGA
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Fig. 6.16

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CTGTAATATAAGACCCCCAATGTCAAAAATATTTACTATCTGATCCTTTACAAAAGCGTTTGCTAACTCCTGTCCTTGT
GTATGCTTTGATTTCATATTAATTATATCTTATGTTATTTATGATACATATATGANATACACATATATATCTAATATGT
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TATTTACTGAGAATCAAACAGAACTTACAATAGAAAAAGAGATACTTCTTAATTAGATATTTTGGAAAAAAATCATTG
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TAACACAATATTTTATTTTTCTAAAGATCTTGCAGTGTTTGTCATCTTTATCACCTTTTAAAAGTTTGCATTTTATTGT
CACTTTTAAAATTTTTAAATAAATGTCCATTTTGTATCTATCATTCTGTGTCTTTATGTAATAGTATCTAATATTCTAT
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GCATTTTTCTGCATTTTTCCAGAAGTGAAATGCTTTGCAACATCCTCAGAAAGAAAGAGAATACATGAGTAATATGAAA
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TAACTGTAGAAACTTTTATTTATTTATTTTTAAAGGAATGGTTACTATTCTTAGGAAAAGTGGCAGTAAATATAGTTAA
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CATCATACTTCAGTATTCAATGTCAAAGATTTATTTCCATTTGCAAAATTTGCTTAGAACTCACCTATATTTACCTTTC
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TGAGACCCTCTGCCTCAACAGCCTCATTCATAGATGAGAGAAGCCCAGAGAGGTGAGGACGCCTTCCAAAGCTCTAGCA
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TTTGATTCTTTGCTGTCGAATTGTTTTGAGTTCTATGTATATTCTGGATATTAGTCCCTTGTTGGATGAATAGTTAGCA
ATTTTTTCTCCATTGTTCATGTTATCTCTTCACTCTGTTGATTGTTTCCTTTCCTGCGCAGAAGCTTTTTAGTTTAATG
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Fig. 6.17

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TCGTTCCATTTGTCTATTTTTGTTTTGGTTGCCCCTGCTTTTGAGATCTTAGCCATAAAATCTTTGCCTAGATCAATAT
CTTGAAGCATTTCCTCTATGTTTTCTTTTAGTAGTTTTATAGTTTTCAGGTCTTGTATTTAAGTCTTTAATCCATTTTGA
ATTGATTTTTATACATTGTGAGAGATAGAGGTCTAGTTTCATTCTTCTGCATGTGAATATCCAGTTTTCTTAGCACAAT
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TTATTTCTGGATTCTCTGTTCTGTTCCACTGGTCTGTGTATCTGTTTTTATACCAATAGCATAGTGTTTTGGTTGCTAT
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CATAGAAATCTTTCACCTCCTTGGCTAAATTTATCCCTGAGACTTTTTTGAAGTTATAAATGAGGTTGCTTTCTTGGTT
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CTGTCATCCAGGCTGGAGTGCTCTGGTGTGATCTTGACTCACTGCATCCTCTATTTCCCAGGCTCAAGTGATCCTCCCA
CCTCAGCCTCCTGAGTAGTTGGGACTACAGGTGTGTGCCACCACACCTGGCTAATTTTTGTATTTTTCATAGAGACAGG
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CTTAGAGGAAAGGCTTTCAGTTATTCCCCATTCAGTATGATGTTAGCTGTGGGCTCGTCATATATGGCCTTTATTATGT
CAAGGTATGTTCCTGCTATACCTAATTTGTTGAGAGTGTTCATCATGAAGGGCAGGGTGAAAGGGATTCTTTTCTGAAG
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CAAACATAGGGAAGAGCTGCTACTTCTAGGACTGAGGGAGGATACCCAAGAAAAGAACAAACATGGAAGGGTCTTTCAC
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GCCTCCCAAAGGGCTGTGATTACAGGCATGAGACACCGCATCTGACCCCTTTACTATACCTTGTAGTGTCTCCCCTACA
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CATTTTTTTCTATTATAAAATAATTTCATAGTTGTATTTACCAAATGTTTAAGCATGAATGTGGTAACTGGTGAAAACA
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Fig. 6.18

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CATCAACTGAAGGGTAGCTAGATGGTTTTGTGCAGAAGTCTGAGTGTCCCTTGTGCCAGGAGATGCTTTTGTTACCTAG
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Fig. 6.19

25/375

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Fig. 6.20

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GCATACAGCAGCAAGAATGCTTTTCCTAAAAATTCTTTTTGCTGAAGTCCCTTTTTTGCTTATGTCTCTTTTCCTAAAA
AATCTTTTTGCTTAAGTCCCTTTGTTGCTGCCCACATCATTTGATTTCCCACAGCAAATTATTATAAGCCTGCATTATC
CTGTTTCTCCTCCTCCTCTGAATCTTCCTCTCCATCAGCACGATTTCTGTTTTCTTTCTTTGCCAACTAGCTGTGTGGC
TAAGAGTAAGTCACTGGAGTCTCACTGTCCCTTTGTCTGTAAAACTATGGTTTTGGAATAAGAAGGGTCCTGGCCTGCT
ATGGGGTGTATCAGAGTCAGGGTGAAAGGGTCTTAAGGTATTTGAAAATAAAGCAGCAGATAAGCTTGACATGGAGAGT
AGCCTACCTCTGGCTCTGTTTTCTCCATTTCCTTAGGAGTGAAAAGCTGGCCGTCAGCAAGCAGATTCAGTGCTCACAT
TGTAGCCACATAATCAAAGGAAGAAATACATATCTTTTTTTTTTGAGATGGAGTCTCACACTGTCACCCAGGCTGGAG
TGCAATGGCACAATCTCGGCTTATTGCAAGCTCCGCCTCCTGGGTTCATGCTATTCTCCTGCCTCAGCCTCCCGAGTAG
CCAGGACTACAGGCGCCTGCCCCCACTCCGGGCTAATTTTTTTTTTTTTTTTGTATTTTTACTAGAGGCGGGGTTTC
ACCGTGTTAGCCAGGATGGTCTCAATCTCCTGACCTCGTGATCTGCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAG
GCGTGAGCCACCATGCCTGGCTGAAATACGTATCTTTTAAGATCTAAAGAAAATCGTTTTAAAGTTACTGTTGTGTCCA
TCTTGTTTTCTTGTTACTGAACTTATTTCAAAAATTTAAATAACATTAAAGGAAGGTATAAGATTTTTATGGCTATCCA
AAAGCTGCATTAAAAAAAAAGTAACTTAAGGATTTCCAAGTCAATTTCCGGCTGTGAAAATCACACTGTGTCCTGAGTT
GGTGGGTTCTTGGTCTTACTGATTTCAAGAATGAAGCCGCAGACCCTCTCAGTGAATGTTACAGTTCTTAAAGCCAGCG
TGTCTGGAGTTTGTTCCTTCTGATGTTTGGATGTGTTCGGAGTTTCTTTCTTCTGGTGGGTTCACGGTCTCGCTGGCTC
AGGAATGAAGCTGCAAACCTTCGCAGTGAGTGTTACAGCTCTTAAGGCCACATGTCGGGAGTTGTTCGTTCCTCCCGGC
GGGTTCGCGGTTTTGCTAGCTTCAGGGGTGAAGCTGCAGACCTTCATNGTGAGTGTTACAGCTCATAAAGGCAGTGTGG
ACCCAAAGAGTGAGCAACAACAAGATTTATTGCAAAGAGTGAAAGAACAAAGCTACCACAGCATGAAAGGGAACCTCAG
CAGGTTCCCACTGCTGGCTTGGGCAGCCTGCTTTTATTCTCTTATCTGGCCCCACCCACGTCCTGCTGATTGGTCCATT
TTAAAGAGAGCCGATTGGTCTGTTTTACAGAGAGCTGATTGGTCTGTTTTGACAGGGTGCTGATTGGTGCGTTTACAAT
CCCCGAGCTAGACACAAAAGTTCTCTACCTCCCCACCAGATTAGCTAGATAACAGCATCCATTGGTGTATTTACAAACC
CTGAGCTAGACACAGAGTGCTGATTGGTATGTTTACAAACCTTGAGCTAGATACAGAGTGCTGATTGGTGTATTTACAA
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Fig. 6.21

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TCCCTTAGCTAGACATAAAGATTCTCCAAGTACCCACCAGACTCAGGAGCCCAGCTGGCTTCACCCAGTGGATCCCGCA
CGGGGGCCGCAGGTGGAGCTGCCTGCCAGTCCTGCGCTGTGTGCCCGCACACCTCAGCCTTTGGGCGGTCGATGGGACT
GGGCGCCATGTAGCAGGGAGTGGCGCTCCTCGTGGAGGCTCCGGCGCGCAGGAGCCCATGGCAGGGGCGGGCGGGCGGG
GGTGGGAGGAGGGGAGGCTCAGGCATGGCAGGCTGCAGGTCCCGAGCCCTGCCCTGCGGGGAGGCAGCTAAGGCCTGGT
GAGAAATTGAGCACAGCAGCTGCTGGCCCAGGTGCTAAACCCCTCACTTCCTGGGCCTTGTGGGCAGAGCCTGCTGAGC
CCACGCCCACCCAGAACTCATGCCCAGCCCAGAACTCGGGCCCACCCAGAACAAGCGCCGTGCCCAGCCCTGGTTCCCG
CCAGCGCCTCTCCCTCCACACCTCCCTGCAAGCTGAGGGAGCTGGCTCCGACCTTGGCCAGCCCAGAAAGGGGCTCCCA
CAGTGCAGTGGCGGGCTGAAGGGCTCCTCAAGCACGGCCAGAGTGGGCGCCAAGGCCGAGGAGGCACCGAGAGTGAGCG
AGGGCTGCAAGGGCTGCCAGCACGCTGTCACCTCTCAATACGATCTGTGAACATGTGCCCTTTCTCAGTTCAGAAAGCC
ATTTAGAGCAAATGTACTTATTTACTTTATCCAGGCTCTGCTTACTCCTCTCCTCTCCACAGCCATCTCCTCCATTAGA
AATGCTTTTCCCTGCCATTTTTGACAGACCCTGAGCCTCCTGGCCTCCCTGCCTGAGACGCATTATAGTCTCTCTGACC
TGGACCACTGCATGCAGCTTGGGAGCCTCCCTGTCTTTAAGGTATCGGACAAAATATAGATGAGAGTAGCAAGGCATTA
GGAGTAGTAGTAATAGCAGTACAAACAAGAATAATAATTTTTATGATAATAGTAGCTAACATTTGTTGAACTCCTTTTA
TGTGCCAAGCATTTTATGTTTATTATCTTACCACCCTTGACAAGGACCTTATGAGGTGGGTACTATCAACCCAGTTTCT
CAGAAGGGGAAACTGAGGCTTATAAAGAATATACAACTTGCTCCAAGTGGTAACTAGTGGAGAGAGGATTTAAACCTTG
GCTCTTCAACATCCCATAACCTATGCATTTAGTTGCTGTTCATAAATAGTCACCTGCATATGTTCATCTTGCTTTTACC
TGTGTTCATCCCATCTTTTTTGTGAAACTCCTGGAAGGCAGGTCGTGTCTTCTTTCATTCTTTTATACCATCTCAGAGG
GCTGTAACAATACATGCTCAGAAAACATTTCTGTTCAACCTGCATGAAGTACAAGGCAGGCTGAAATGTAAAGAAATAC
ATAAATTACACTGAGGAAGAGCAAATCCTTTCATATAACTTTTTCCTGGCATTACCTCTTAGGGGAAAAGAATTCTCAA
GCAAGCTGTAACTGAGCTGGTTACCAAAATCAGAATGAATTCTCCCCAATCACGGGGGACATTCCATAAGCCTTTGGAG
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TAGGGATTCTGAATAAGAAAGATACAGGCAGCTCACTTGGAAGTTACGTTAAGGACTAATAAAGATCTTGGAGTGATTT
TCAACAAGATAAGATCAGCATCCTGGTATTGAGTTATTTTGCTACATTAATTAATTTCAGTTTGTTCTAATGGTCTTTG
GCCTCCTGCTTAAATGTCAATTGAGGCAACAGATTAATTCCCCTTAAATAGTGGCCTGTCATGTCTTGTTACTTAGTTC
TGGGTTTTATAAAGTAAGAACTAAGATGGATATTTATCAATCGAGCAGATTTCTGTGTTGTGTCCTCTAAAGCCCTTGG
GGTCAGTGTCTCACTGTAGCATCACTAACACCTTTTATGGAATCAAGTGATTAATAAATGTGTCCTCATGAGACTGTGA
TGCTTCTGGGTGTTCATTTTAGATACCTTAATAATTAGTCTCAAGAGTAGCTCAGTTATTAAGTGATTTTGGGGTTGCA
TCATGTCAGGGAAACAATCAAGAAGAAACTATTTTAATAGCATAAATTTCTCTGAGATAGTGAAGATAAAAGAATGCTA
CCAGTTTACCCACTCCTTACTGTCTGAGTCAGGAAGAAGGTGGAACATCCTATTCCTTCTTCACCTCTATTACCTCATT
TAGAAAATTTTGACTATTTCTTCTTTTAGCTCCCTTTTTACGGTCCACCATTTTTGGAAGATGACTTTCTCCCTGTCTT
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CGGGCACTGGCCCACCACTCCTTTTTCTATTCTCAGTTCTTTATCTATTTACTTTTCTATTCCCTGCTCCTTTCCTATT
GTCCTGACTTGCATGACACTGGCAAGCTACAAAATGGGAACAATAGCAACTGCCTTAGAAGGCTGACAGGATTCACGGG
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TTTCTTGGCCTCTGGCCTTAGCCTCTTTCAACATATTCTACATAGGTAATCAGATTCACCTTCAAACAATGCTGTTTTG
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TGGGCTGTAGCCACTAGGTTGACGAGCATCCTCTTGACGAGCATCCTGATGATGCTGATAAAAGTGCTCAAGGACATTT
TGGGAATTTTTTCTTTAGTGTTATCTAGGATAGTACTGTATACAATGCATATTTTTATGTATAAATCTTATTTCTGTCT
ATGTTAGTTGCCTTGAAACAAAAACTGGGCCTTTGTATCTGTGCAGGCTACAAAGGCTTGACACTGCTACCCTTAGAAA
GGCCTGCTTGCCAGGTTAGCCTTTGGTTGGTAACTGGGAACTGAGCCCTTGGAGGGCTCTCAGTCAACAGTCAATTGAT
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ACAGAAAGAGAATTTGTTATTTTGAAATGACTTCCTGGCGGCTGAGTTGTTTTCATTTGATAACGACCCCTCTCTAATA
CCAAGTCATGGTTTGCAGTTTACGTCTTAGGGTTTTCACAGATTTTATTTGATGGTAGGAACCACATCATTTGTTCTAG
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CTGTGTGCCAAGCATCGTGTGTAGAGGATACAGAGATGAGCAAAAATAGGTCCCTACTCACATCATAGAGGGGAGGCCG
ACTCACATGCACACATTTCCAATCAGATATGGTGAATACTAGTGGTGGAAGGTTAGGAGCCCAGAGGACAGCATCTCAT
CCACTGGGACCTTGCTTCCTACGAGGCTTGTCCTGCATTTCATGGCCTTAAATTTCACCAATGTAGTTATCTAGTGGTG
CTGATAAATCACTTATAATTAGTTTTTTATTGTCTAAGTATCAATTTTAGCTGCTGTTTTTTTTAACCTTTCTTTAGTTT
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Fig. 6.22

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CTGCCTACATAATTTCCTTAGAATTAAAGCATCAATAATGGACCTTTGCAAAAATAAGCACTTTCTAACACCAATGTGC
CATCCATCAGCAAAGGAGGCCATTAGCAAAGTCCAATTCATAGACTGCCTCTGATTTTGCATTTTAAACTTGCTAATAT
TTAGCTCACAGTGTGATTTTCCCACGGTCACACACCTAGTTGGTGGTGAATTGCCGTAATTTTGCAATTCATATTATTT
TGCATGTATCTCATTTTATTTGTATTCTGTGCCAATCTCTCTGATATTGAATGTAAGTTTATTGAGTGCAGATGTCTGT
GTTTTTATTTTTGTGTCCCTAGTGCCCAACATATNGTCTAGGGAGGAAAATACTTGTTAGATAAACAATTAGATGATCT
ATTAGGATTCTGTAGAGAAACAAAACCAATAGGAAATATATAGATACATAAGAGGAGATATATTGTGGAAATTGGCTCA
TGCAATTATGGAGGTTGAAAAGTCTCACAATATGTCATCTTGAAGCTGGAGAACCAGGAAAGCCAGTGGTATAATTCAG
TCTGAGTCCAAAGGTCTGAGAACCAGGGGAGCCAATGGCATAACTTCCAGTCTGATGCCAAAAGGCCTGAGAAACTTCA
GGGGAGAATCTGAAGTCCCAAGAACTAGNAACTCCAATGTCAGAGCAGGAGAAGATGGATGTCCCAGCTCAAGGAAAGA
GAGTTCACCTTCTTCTGCCTTATTGTTGTATCTAAACTGTCAATAAATTGGATGATGCTGGCTCACATTTGTGAGGGCA
GATTTTCTTTATTTAGTCTACTGATTCAAATGCTAATTTCCCCAGAAACACCCTGAGAGACACATCCAGAAATAATAT
TTTACCAGCTATCTGAGCATCCCTAAGCCCAACCAAGTTGACACATAAAATTAATAATCACTGATGATAGTAATGAAAA
GAAAAAACTTGGATTTCTGCTTTTTGGTCTTCATGAGATATTTTCCTCACTGTATCTCTCTTCATGAGATATTTTNCAC
TATATCACATGGATATATTTTCCACTTCGATATAGTAGAAAATATGCATGGAAAAATGCATCTATTATTTATTGAGCAC
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AACCATAAGATAAATATACAAATGACTGTAGTGCAAGGTAGAATATACAAATGCACAACTAAGCAAATCTGAGAATGGG
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CTGAGTTCCAGAGGTTAATTAAAAAAATGAAGGCAGAGGGAGAGAGGGCAGGGTGGGCAAAGGGAAAAACAGGAAATAT
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CTTGACCTTGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCTCCCGGCAGCACTT
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CTGTGATCTCCTAGAGGAACAAGTCCCATGTCATTCTCATTGACAAAATGAACATGGCAGATACTTGGTAAATGTTTGC
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AGTTTCAACTTGAAAGTTTCAAACCTGGGACTCTAAGAAAATAGTCTGAATGGTAATGAGAAAGTTGTCACTTTAGTAT
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AGTGGGACCAAGAAGAGCATACAAAGCTGAAATGTTCTCCAGAAGTTGATTTCCAATGGGGATAAAGTAAGTTAATGGT
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GGAAGCATTTTTTTTTTTTTTTCCTGCAGGTCAGAGTCCCAAAGCTTTAGTGCAGGGTTCCAAGGACTCAGGAGTTCA
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GATCTCTTTTTCCCAGTACCATACTGCTTTTCTGGTGGAGGTTGTAGTATATAGGATGATGTCAGAAAGGAGAGGCTGG
GAAGCCTGAAACGATCACATCGACAATTGAATTGTCTGTTTTTTCTAATAAAATAGAAAATGTTAACTAAATATATTGC
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Fig. 6.123

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CATGCAATTCTTCAAGCATATAGGACTTTGGGTCCTTTTTTGTGTCTCAGACTTTAAGATGATGTCTCCTGGGGAGTCA
TTTACTATATGCAAGGAGAATAGCTGAAAAGTCAGGGTAGGCCAGCAGTATTTCATGCTTTGTACTTGGGCAATATGGG
TTTTTCTGTTGGAGGTTCAGCAGAGGATGGTAGCAAAGTGACATTTAATTCTCCTGCTTGCCAAATCTTGGTGAGGCCA
AAGTGGGTGGGGGAATCGGTTGTGAGTAGGTGTTAATGACGAGTGTCTGGACCTTGACGTCTTCTCAGTCCTGGAGTAG
GGAAAAAGGAACAGAATTAGTGCTGTTTAGAAGAAGCTGGTGATGGAGGTCTGCTTAGGAATGAGTGCAGATTAGGACA
GGGGCAGTGAGGGAGGCCCACAGAGACTCTGGCTGCCTGTCTTTCCTGGCATGTCTGTGGAATGACCTTGCTCTGCCAG
GACTCTGGGAGGAAGCCTTTGATTTTGGGGGAATCTTTAGGACTATGCACATAACCAGACTTTCCTGATGGGAATCTCC
AAGGGGGCCTCCTGGGCCAGGGCCGTGGGCCAGCAGGTGTCTTCCTAACATGGTCTGTGAATAGTGCCCAACCTAGGCG
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TAAAGAGAGTGAATGAGGAGGAAAATCAAATATTGTGGCAGGGAGGGGCTGACAAACACAGGCATGGCCAACAGAAGTC
TCCCACCAAAGTGAGGAGCTGAGAGAAGGATTTGGGGAGGGAATGTCAGAAGTCTCACTCCCAGGCAAAGGATTCAACA
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CAAAAACAACCATCCAGTGTGTTCTTAAAAGTCCTGTGAAGGTACATTGTAATTTGAACTATATTTTGAAGATATCAGA
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TGGATTGTTTTTTCTCCTACATATATGGCTTGAAAGCTCTTAACAAAGGATAGTAATTAATTATTTCCCAGCTATTTTT
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CACCAACAGAGACACTCAGCCTCTAAGTTTGGCTTTTGGAAAATGAACACTATTCTTTTTTTTCCAAACAGGACGCTGT
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GGATTTTAACCAAATGGCCATTTTAGGAAGGAGAGAGACTGCATACTGTGTTTTAACTTTCTGACCTTTTTGTTCTTAA
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GGTGGAAGTAGAAACTGAGTTCTTTTTAAACTGCTAAATTTAGGTCAGGGCTTTAATACGACTGTGCACATCACATAAG
CAATGTCTAAATGTCAGGCTGAATGTTCTCTCTCTTTTAAATAAGTACTTCAAGTTCGTTAGTAATAGCTAGCCCTCTG
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TCCCTTCAAATGTGCAGCTCTCAGGAGAGAGAAGACCTACAGTGGGTAGCTCCTCTCTGCAGGCCAGTTGTTCCAACCT
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GGTGGGGCTTCACGGAAACTGCCCCTTTCTGTCCAGGAGTCCGTCTGCCTCCCGCTGCCATCAACCTGCTGCACTGGCA
CCCAGGCTGTTCATGCCAAGGGGCACCTGCAGCCCATACTGAGCCACTCTCAGCTCCCCCTTGGCCCCCCTCCCATGCT
CCTTGGTGCACAGAGTCTGGAGGGGGCCGAGGCAACAGGGGGCTGGTGTGTCAGTGGTACTCTGAGCACGGGCATACAC
AGCTGGGTCGTGACAGTGCCCCAGCTTGCACTTAACTTTGCTCTGAAATTGGAGTGGGAGCTAGGAGTGGGGAGAGGCT
GGGCAGTGGGAGCAGGCATTTCTGAGCCTGTGGGGGTAGGGGGGTTTCCTGGGCTTCTGAGAGTACAGGGATGCCTGGG
TCTGCACCCACAGCTGGGTGGCTGCAGCTGTGCCCAGGAGGGCAGGACTCCCACCCCTCACACTCAGAAGTGGGTGGGG
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TCTCAGCAGCCACTCCAGATGGGCCACCACTGTCATCAATTACATTACCTACCTTAGTGTTATTGTGAAAATTAAATGA
GTTAATCCATGTAAAATGCTGGGAACAATGTCTGGCATAACATAGAAGCTCAATAAATATTAATTCTCATTATTGTTGG
TATCATTTTTGCTATAATTTGAATCTTTTACATATTGTTGTGACATATGGAGGTTTTTGACCTACAGGGTTTCTTCTGA
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Fig. 6 25

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GTGGCATAGCTCAGGGTAAAGTGGCTCTCCTCACCTCTCAATACCCTACTGTCTTTTGCCTAAATTCCAGTTAAGGATG
GCTAGAGACATCATATGGGAAAGGGTGGTCCTGAACCAGAGAGATGGGAGAGCAAATTGCTAAGGTGGTTCTTGAGGGT
AGGGATGGAGAGCCAGACAGAGACAGGTGTCCTCCAGACAGCTGTCCTTTATCATTCACTCACTGCCTCTGCAGCTCCT
GCTGCCTCCTTCAGAAAGCGAATGTATGTTGCCTCTAATGCCCTTCCTGAGCTAAAGCCCAGTAGTTCTCAAACATCCT
CTTTCAAAGACACTGAGCCCTGGTAACCTTCATTACATTGTTGTTCTCATATTTTTCTCAAGTTAACTCACTCATAACC
TACAGTTTCTTATTACATTGATATATTGATTATGAATCTTTCACCATTAACTTTTGTTCATTTCTATTCCATCGCAAAC
TTAATATTCACAAAACAGGCTTAATCTGAGCACAAGTGAAATGGTATAGCTGCGAAATACCTGGCAGTGGTAGGTACTA
GGTGTTATAACATGATGACACTTAGAATTTATAGACACTTAGAGCATAGTTTTTCAAATATTTTGGCTGTAATCAATAA
GAGATAGATTTCACATCACAGTCTATACAGATGTACATTTATTTATATGTATGTATGTAGGCATAGCTTAAGCAAAAGT
GTCATGAAACAATGTTCAACCTATTGCACACAATGTACTTTCATGATTTGTATTCTCTTCTTTTTTATTGAAAATGAGT
CTGGTTTGTAACCCAGTAAACACATAACCTACAGTTTGAAAAACCCTGATCTAGAGGAACATCCAGTGGGTGCCTCTTG
AGTTCTTACGCACTATCCACATATCATCCGTATCATACATAATGGGTTGTGGCCATCTCAGTTTTATTTTGAGGCACTG
CCTCTTCTCATCCTGACAGAAAAAAAAAAAAAAAAAGAAAAAGAAAAGGAAAGAAAGCTCAGATCAAGAACTAACACC
TTATCTTAAAACATATAATCTCTCCTTTACCTTATGCTCTTTCCTAATAACTATTCTTTTTCGATTGTCCAAAAGAAAC
CACTCTAATAACTTATAACACCATGTATTAGAAATTTAGAAACCATTTTTGAAAGACAGTAAAGATGTAAATTAATGGG
GGGACTAAATTATGCATGGATAGAAAGACTATTTATTATAATGACATCAGTTCTCCCATAAAATCAATGATATTTCAAT
AAAAGGGTCAACAGTCTTTATTTTATAATGGAGACTCACAATCTTATTCCAAAATTTATATGGAAATGCAAGTAGCCAA
GAAGAGGCAATATAGCCCTAAAGTAAAAGAACACGGAGGAAAAACTTAAAACTATCTGATATCAATACTTACTATAAAG
TACAATACTTAAGTGTGGTACTGACACAAAGAAAAATGGTTCACTGCAGTGATCATATACATCTTTTGTTAGATGTATT
TGTATGTATTTGATATTTTTGATGCTGTTGCAAATTTTATTGTTTTGTAATTTTTACCCTGTTGCAAGTATCAGAAATA
CAGTTGATTTTTCTATCCAGCAAACTTGCTAAACTTTGTGGTTAATGGAAACACTTCAGCTATAGATTCTTTTCAATAA
CACAATCACATTGTCTAAGAATATTTTTATTTTGCTTATTCTTTTTCAATCCTATGCCTTTTCTTGTTTTCCCCCCCTT
GCTTTATTGCTTTGGCTGAGATTTCCAGTGTCAAATAGAAATGTTGATGGTAAGCATTTTTTTCTCATTCCTGATTTCA
GAAGAAAGCTTGTAGCATTTCAATATTGAGTTATTTTTTTTGTGGTGTTAACAATTTTTTTTGTAAACACCTTTTATT
ACATTTAAAGAGTTTTCTTCTGTTTCTAGTTTGCTAAGAGTTTTCTTGTTAGACGTTAAATTTTATCAAATGGCATTTC
TGAATCTGTTGATATAATAGAAATTTCTCCCTCATTCTGTTAATCTGGTTAACTATATTAAATTGATATTTTGAATGTT
AAACCAACTGTATTAGTCTCCAACCTTGTAGTAACTAAACTGAATTTAGTTACACTGTGTTTCATTACTGGATTCAGGT
GGTTAACATTTAAGATTTTGCACTGTCACATGTAAGAGAGTTCTGGCTTGACTTTTCTTTTCTTTTAATAACTTTGTTG
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TATCTATTAATGTTTTGTCTTAAAATCTACTTTGTATGGTGTGAACATGGCTACTTCAGCTTTATTCTGGGGTAGTGCC
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CACTTTTATTTTTACATAGATGTTGATTAGCTGTGTTTCATTGAATATTCTCAGTTTTGGGTATCAGTTTTCAGCAAAA
CAACTAAATGTGACACCTTCCTACTGAGCATATTGGGTCTATACGTGTGCATTTGACTTACGACTTATATTTTCACCTA
AAAAATATTTTGGATACAATATTAAATTCTTTTAGCATTAATAGAGTGCTTGAAATATGAACTTAGTGCTTTTACTTTT
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Fig. 6.25

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AAAATATTTTAAAATTTTGATATTTAAAAATTTGATATTTTAAAATATTTTTTCTGTACTAAAATGCACTACAATATAA
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CAAAACAAAACAAAACAAAAAAACTACCACGGCAGGAGGAATTTCAAGCATGTGAAAGCTGTTACCAAGGATAATTGTG
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CTAAGAAAGCAATAAGAAAAAGGAAGTAATTAGAAATTATGTATAAAGATATTTATAGCATTTTTGTTCATAATATGAA
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CAGCACTTTGGAAGGCTGAGGCAGGTGGATCGCCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGCAAAACCC
TGTCTCTACTAAAAATACAAAAATCAGCTAGGCATAGTGGCGGGTGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCA
GGAGAATAGCTTCAACATGGGAGGCAGAGGTTGAGCCGAGATTGTGCCACTGCACTCCAGCCTGGGCGACAGGGTGAAA
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Fig. 6.126

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CTCCATGTAAAAAAAAAAAAATCACTTAATATTATGAAAAACTGTTTATGACAAGACATGATGTGAAAATAATCATGGCA
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CATTTTAAAATGTCTCATCATTCATTTTGGCTGAAAGTTAAAATGCAATCTCAGTTATTTCACGTTAATTCAATTACAA
GCCCTTCTCTTCCCACAGTATCATTTCATCTTAAACCTTCATACTCAGCCTCCTTTGCAACTCTGGCCTCTCTTGCTTT
CCATTCCTTTTTGTTCTTTCTCTGATTAAAAAAAAATACTAAATTCTGTCTGCTTTTCTTTGACAGCATTAGCCTTTTT
TCTCCTCTGCTCAGAATATAATTTTTGCTATTCAGTTTTTCAAATATTTACCACTGTTCCCTTTGTTTCTTTATCCTGG
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TACATAGGGTATGCATGAGAATGAGTGTATTCACGTGTGCATGTATGCATTCATGTTTGTGTGCATGTTGGTGCATACA
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TAACAGTGCCCCTTGCCTTCATTGACCTTTGGAAATATTGTGAAAAAGTCAACCTTTTCTATTCTGTCTGTATAGTCTT
ACAGTGTTTCCTCTCTTTTTCTCCCTCTAGGGAGTTATCCAAAGCCCCCTTCACAAGAAATGCTAGCTTTCAGGAATAA
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ATGAATAATAAACATACCAGTAATAAAGATACAACAACCTTACGTTTCCATAGATTCTTGATTCCTCTAAAAGCACTTT
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GTCTTGTTTTCTGCTGAGTTATTAGGGAAAGGAGTATCGTGGATTCCCTCACTTTCTTTCTCTTCCATTTTTATTCGTG
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GGAGGCATCACACTACCTGACTTCAAACTATACTACAAGGCTACAGTAACCAAAACAGCATGGTACTGCTACCAAAACA
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Fig. 6.(27)

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AAAAGCAATGGCAACCAAAGCCAAAATTGACAAATGGGATCTAATTAAACTAAAGAGCTTCTGCACAGCAAAAGAAACT
.ACCATCAGAGTGAACAAGCAACCTACAGGATGGGAGAAAATTTTCACAATCTATTCATCTGACAAAGGGCTAATATCCA
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TAAAGGGTTCACAAAAATGCTTTCAAATTGATAAAAATATGGAGGAAGCCGCTTTTCTAGTCTTCATCAAGGATCTGCGT
TGGGTGGAATAGAATCTTTGTTTGGGGTTTGGTAAGAGTTTCATGATGCAGGATTTTATAGAGAGGGAGCTAATGCCATT
GGGTGGCTGATCACCTAGGTGAATGAATGTGGGGCCACTCATCCATGCATTTTTCTGCAGGTGAGATGGGATAGGTAG
CCCTTGTACAGTTCTTCTGTCAGAGATCTTGGTCACATTTGAGTCTCTGCTGGGCTAAGGCAGAAGCCCTTATAGGAGG
ATAGGACCACTACCTGGCCAGGCTTGGTTTTCTTTAGCTCAGAGCCTGGAATTGGCTAAATTTGAACAGACAAGATTAA
AAAAAACAAGCTGATTATACAAGTGATATTGTAAAGAACAAAAGCTAGATACCATAAGAGCTGGATACCAGCCAGTGTTG
CTGTTTGGATTTGATCATACTCTCTTGAGTACAGGAACAAGAGGGCAGCCTAACATTGTCCCTGAAGCCCTCTGCCCAC
AGCCAGTCAGATCCATGTCCAACCTTAGCAGCTAGGATGCTGGCCATCCCTGTGGCCCAGGCCCCATTTGTACAAGTTC
TGGGACTGGGGTGAAGGTATTCTTGTTATAATGCCTTTTTAACACAATTCTGGCCTTTTGGGAGAGAGAGTCAATGTTT
TACACTCTGGGGANTCAACTTGTGCTCGGATTCACCTTTGGCAAGGGTCCTTTAGTGGAATGGACTCTGCCCAGGGAGT
CAGTGGACTGCTGTTTGCTGGTTGATTTTAGACAAGTTACTTTATGTTTGTGGGCCTCATTTTCCTCTGAGCAAAGACA
TCTCTAACCTGAGTCACAGCACAATCTTTGTCGTCTGACTCTGTCTGGGGCATGGAAAATTGTGTGTGTGTGTGTGTGT
GTGTGTGTGTGTGTGCATGTGTGTGTCTCCAGTCACTGGTTCTGGGGATGTTCCTCCAAACTGTTCTTGCCTTCTTTCT
GTTATCCAAACTTTTCTGTGCAGAAGAACAAGATTTAAGTTTGAATGGATCATTGTTTCTTTTCGGCTAAACAACTGCT
GATAGTCAGAGGATGACCTATTTCTGAAGCAGACGACCAAGGAGAAATTTATGGATTTCTATTCTTTAGACTTAACCAG
TGTTCCTTCTTGGAACATATGTTATGGAACTTGACTAATCGCCCTGGCAATATGTTGCCAAAGTTTTCCTGGCAATAGA
TCAAAGTCTGTAATATACCAGCACATCAGCTTTGCAGAGCTCAGACAATGAGAAAACAGGTAGGGGTGGGAGAAAGCAC
TTGCAATTAATTTTGGAGTCAGATTTTGATAGAAAAGTAGAAAGAGGATAGGACTAATTGACTTCTGAAAGAATTACAN
GTGGCTGGTGTGCCCCATGACTCACACTGTAATCTAAATACTTTGGGAGGCCAAGGTGGGAGGGTCTCATGAGGCCAGG
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Fig. 6.28

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GGTTTGAGATCAGCCTGGGGAACATAGTGAGACCCTGTCTCTACAAAAAATAAAAAAAATTAGCCAGGCTTAGTGGCAT
GTGCCTATGATCCCAGCTGCTTGGGAGGTTGAGGTGGGAGGATCACTTGCAACTGGGAGGTTGAGGCTGCAGTGAACCG
TGTTCACACCACTGCACTCCAGCCTGGACAACAGAGCAAGATCCTGCCTCAAAAACAAAAACAAAAACAAAAAAAAAGA
AAGACAAAAAGAATTGCAAGCGGCCAATACATAAGAGAAGATGCCTAACACCTAACCCCCCAATTAGCATTGTGATTA
TAAAGATAACAATGCTATCATTTCCCCACATCATTTTGGCAGAAATGTGAATGGATGGTTAAACTCGGTGTGCCTGTGA
GTTTGATGAAATGGATGTGCTCATACAACTACCTGATACAACCTTTTGGAGGGCAGGTGGCTGATACTTACTGAAATGT
GAAATGTATAATCTTCTTGCCCAGAAATTCTGGGTCTAGGACTTATCCTAAGAAGACAACTATACAAATGTAAAAATAC
ATTTATGTAGTATGTTTGCAAAAGCATATTCATGGGGAAAATGAGAAATAACTTTAATGTTTATCAATAGAGAACTGGT
ATAGTAAATTATGATAAATACCTACTGTGAAATCCTGCATAGTCAATAAAATGATGGTGTAAAGCTTCATATATTAATG
TGAAAAATTATTTAATGGTACAAAACAGGTTATGAAACACAACAATCACATTTCTATACAGTCATATTACTAGAAATAT
GGGAAGTTGTTAATTTAAATCTGAACAGTTAGAATTTCAGGCTACCTTTACTTCCTTTGCTATTTAACTGTTTCCTCTC
CCACCTATCAACTCTATGTCCTTAGGGAAACTTATTTAACCTTTCTCACTCTTGGTGAAAATGGAGATAATACCAAACT
CTTAGAGGTTGTTGTGAGAATCAAGCAATAAAATACATGTCAAGCACCTAGTAAAAAATGTATTTTGATTTTTTTTTGT
CATACACAGTTTCCTTTTTTTCTTTCATTATGTGAGTACAAACAGCTGTGTTCCTATGCCCAGATTCAAAGAGAGAAAG
CTAAGTGGGCTTTTGAATAACTTCCACTTATTTTAATGCAGGGAAAGCTCTAGTTCCAAATATGTGGAACAGTATTTTC
CTAAGGCTGCAATGTGTCAGAAAAAGACCATATTGAGTCATTGTTTTCTGAAGCCAAGACAGGAGATTGAGAGACGGAT
GCTGATGGGCAGCCTAAAATAATATTTCATTCTTGTCATCCTTAGGCAGTTTAAGACCAAGTCATTTTGGATAGATCTA
CAGTTTCCCTCTCGGTTTGGAAGAACAAAGCTTTTGTTATTTATGTTCTTAAACAACAGCGCTTTGTCCTATACTCAGG
AGCGTGCAAAGCAAACAGAAGATTTCCTGAACGGCCATCCCATTTATGGTGAGGAGTCAGTCCAAGAGGTAAGTAGACA
TACTCAGCTGCAACCATCTGCAGAGGGCCCACATTGGCAGCAAAAGGAAATAGCCAAGACTCACAGGAGCACAACAGCC
AGTCAGGTTTGGGATTCACTTCTCTGATACTGTGCCAAAGTTGGTGGACTCAGCCATTCTGAAACTCACTGTTCACTTG
GGGCCTGCTTTGCACAACAAAACAAATAGCCCTGTTTTGCTTTCCATGTCTGAGGCAGAAAAATAAAAATGGCAATATT
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GAAAACTGTGGAATAGGGGATAATTAGGGCTCAAGAGATTTCATTAATGGTTAAAGGATCATTAGAAGGACACGTACTG
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CACTTAGCAAAAGGTCAAGTCTAAGTAGAATCTATGAAGTTGGGATTGATTCTGATTGGTAATAATGCTAGCTAGCAAG
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TCACTGGCTTTACAAACATTGACGCATGGTGGTGGGTGTGGGCAATGAAAAGGCAGATTCCTAGATTCTACTCTAGATC
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GACATTCGAGAGCCACTGTGTTATTTCCTAGTGCAACTGTGACTCAGTGTAATCTGCTTTCTTTCCACTCCTCTGATTT
CTGTGTGTAAATTTTCATGACAAAAGTTAGACAAAATACCATGGACTGAAGTTAGATATAGAGCAACTCATGTCTCTTT
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GGAAGGTTAAAGAAGTGAGAACTCTTTCCTTGCTTAGTGGTGGCCTGTGCTCTGGAGGTAGAGAGGAAGACACAGGGGC
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GGCCCCTTTGTGGGCCACAAAGAAGAATCTGGGGAGCCCAGGGAGACTATTCTGGGGGTAGAAGTGAGGAGGAAAGGCT
CTAAAGACAAACTGGACCTATGTCACAGTTCCGAGGGCTGTCCTCCAGAATACATTGTTTTCCTGAAATTCTCCAGCCC
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TGCAGGTGGTGAGGCTCAGTGGCACAAGTGGCTCTGGGAGGGAATCTTGATGTCGGATTCTGTAGCTGCACCAGCAGAG
GGGGAAGAGGGAGATAATTACCCACCTCTGAGTCTGAGATCCCCCTACCCCCAGTGCATTCTTCTGCCAGGAGCAGGAT
CATTAGAATAAGTGAGACTTAGCTTAGCTCATTCAACTCCTTGCCAGGCCCCATGCAAAGCTTTCAAACTTTCAAATAT
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GAGGAGAAAATATAATTCGCTTCAACATAGCTCATATTTAAGCTGAGAATTCAGCATGAATTCCAGACATGGTTCATGT
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CCATGACTGAAGATTAATGACTTCCATTATTTTTTTTCCCTCATGCAGGAATGTTTAAACTAGTCTAAACTTTGTACCA
ACTATCATATGAATCATGTCTACTACTGTTACCCCTTGTGTGTCATGTCCTGGGTTAGTGTCCTTGCATGACACAGCAA
AATACAGGGCAGGGTTAAAAGTGTCAATTGAGAACCAGGCAAAAAACTGATGATTAATAGTGACCAACACACTTCACTG
TGCTGTTATCTTAGAGGCCTTAAGGCAAAATCTTACTTACAAATATTAGTTGAAATGCAATATGTGATGTTAGTAGACA
CATTTCACCACATCTGGCAGTTCATTAATTCACCTTCATTTTTTTTTTCTTTTCTTCTTTTTTTTTAATCTTTTTTTTTT
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Fig. 6.29

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ATACTTTAAGTACTAGGGTACATGTGCACAATGTGCAGATTTGTTACATAGGCATACATGTGCCATGTTGGTTTGCTGC
ACCCATCAACTCGTCATTTATATTAGGTATTTCTCCTAATGCTATCCCTCCCTCAGCCCCCTACCCACTGACAGGCCCT
CGTGTGTGATGTTCCCTGCCCTGTGTCCAAGTGTTCTCATTGTTCAGTTCCCACCTATGAGTGAGAACATGCGGTGTTT
GGTTTTCTGTCCTTGTGATAGTTTGCTGAGAATGATGGTTTCCAGCTTCATCCATCTCCCTGCAAAGGACATGATCTCA
TCCTTTTTTATGGCTGCATAGTATTCCATGGAATTCACCTTCATTTTCAATATTGTGTATATTTATTGCAGTGAGCTTA
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CTCCCAAGTAGCTGGGACTACAGGTGTGTGCTACCATGCCCAGCTATTTATTTATTTGTTTCTCTTTTTTGCAGAGATG
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AGCATGTATTTGCCCATTTAATCTTCACACCAGCCTAGGAGGTAGTTACTGTGTGTGGCACCCTTTTATATAGGAGGAA
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TGTTTCAGTGTGAGGTTGCCCCTGCTATGTGACAGCTCCAAGGACTAAAGATTTCAATCCCCAGAAAAATGTCGAGTCC
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GTAACAAGTAATTGGTATGACTAACACTAAATGTAATGGGAAATAAGGATACTATTGTAAAGAAAACAAGAAAAACCT
GGGGTAGGGGAGCAGTATTGATTCTCTCTTAGGATTCCTAAGATTCTCTGTCCCAACCCTTCTACCATGGAACATTCTT
ATGTGGTCTAAGTGTCAAAGACCAGAGGAACTGGGCAGTAACTTATCTTCTCAATTTTCTCTCTGAACATAGATATTTT
CTTTAAGATACGAAAAACTTTTAATTGTGCTCCTGAAACCCATCCCTGTCCTGTCTCAGCCCCGTTGACTCTTCTTTCT
GTGGGTGGGTGAAAAGCCTACCCATCTGCAAAGGTAGCTCTGAAACTGTTCTGGAAAATCCTGTATTTTCCTCCACAAA
TGATCGTTTTAGTTTCAAGTTTATTTCAGGTACATTAATTCTCCCCTCCTCAGACTTCATAACAAATGATCCTGCACA
CGATTAGAATAGGAAAATGTAAAATAAAATCGAAGCATATCTAGTTGCCTCAGCGACTTTATGCTTATCACTTTCAGTC
TGCATTATTCTACTAAAAATAAAAAGAAAGATGAAAATTACCTCAGGCGTTTGCTGCCGTGCCTGCCCTTTGGTTTCTG
GGACGGCTCGGGTCCCGTAGCGCCGGCACAGCTGAGATTGCCAAGCCGGGAAGAGACCTTGCTCCAGGTGTAGCTGCGT
TTTCCCCAGATCACCTGTCCTTTTCCCCTCCGACAAGGAAGCTGTGATTTTTCTCTGGCCTTTAGAGGCAAAGTGATTC
CAGATAAGTAGATTAATGTGTAGAATATCTCATCTGTGTTGTTCCAGTGCAGCCCTTTCAGCTTTCCAGAGCCAGTTAG
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Fig. 6.30

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ACTTGTTATGAGGAGCTAAGTGATTGGCTGGCTCTGGAGCTCAGTTTCATAGATTATAGCCCAGCGTACGAGAAGCACG
AGTCCTATAGTTGGCGTACCCTGAGGCCTGCCAGTTCCTGCCTTAATGCATATGTAGTCGTAATTGAGTTCTGACACGG
CCTTGGATGTTTCTGTCCTAAATAGCTGACATTGCATCTTCAAGACTGTGTGAGTAATCCTGATATTTTTTTTTTAAGC
TCAGTAAATTAATTACATGCCCTGGGAGGGAGTGATTGTAAGTAGAAAATACTGAACTAGCAGATGATTCGTTTTTAAG
GTGCTATACTATGTGTATCAAGTTCAAGACGATGAATCTTAAAGCTTCTAAGAACTGGCAGGGTTATTCCAGCTTTGTG
CCATGAATCACAGTCAAGCTGCATTTTGAAGGAGGCTGTTTGATGCATTTGCTAGCTCTGTTTGTTTTATGGGGTCAGT
AAAGTGGCAGAGGTCCAACAGGAGCAGGTTAAAGCAGGATGCTGGGATCAAAGCTTAGAGAGCACTTGAGTCAGGCAAG
TTTTAAGTTTTCCCACCCCCAAGCATCTCAGTCCAAAACTGAGAGCAAGCAGCAAATATTATAATAAATGCTTTGGGGA
CAGGGGTACACAGCAGATAGGGCACAGTAACAGGAGAAATGTAAAATGATGGCAGCAATACTTTTGTTCACTGTAATCT
GCAGCCAATTGAAGACATACACTATGAATAACTAAAACATTTTTATATGAACAAAAATGCTCTTCAGTGGTTCTGTTTA
TGTGGTAGAGGGCTGAATGAAAAACCATGCGCTTGTTGTAAAAAAGCCTTATAAAAAGTACATTAAACACATACAGACA·
CAACCATAACAGAAGAAAGTATGTGGATTGGAATTTGTGATTGGAGCAGATCAAATTAAGCCAGGGAAGCCGTTATTAG
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TAAAAATAAAGGGGGTTCCTTTTCAAGTTGCTTTTTGTCTAATTTTTCCTCTTTAGACCTGTAGATACAAATGTATGTAT
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AAAGAAAGAAAAGTAGCCAACGTAGACTCCTTTTCTGTATCAATCAAATATATGCAAAATACATAGATTTTTAAAAATG
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GTGAGTTGATTTATTGAGTTTCTGTAGCCATAGACACGAATAGTAATGGTTGGCTCATTCTTAGCTATACATTCCTAAC
TGACTGTATTAGTGGGAGAAAGGAGTGCATCTATAAAATAAATATAATCCCATCCCTCAAGGTGGTCTGGAGCCCATCT
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GTCCATGTGGCCCACTTGGTGTAGTATTCACATCTCCTTCCACCTTTTTATGCCTTCATTGTTTACATTACCTTGCTTG
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TAAAACCAAGGCTCAAGGAAATTCTGGTGGGTGTATACTAGGAGTATTTACGTCTTGCATCGGTACTTTCCTCTGGGAC
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GAAGTTTTAGAGGACATATTTTCCTCACAGGAAAAAGTGGGTTAGGAAATTTAGACTGACAGATGTTCTTGGGTTTTTT
TTTTTTTTTAATTCCTGTCTTGACTCTCATTATTAAATTTTGCTAAGGAAATAATTATGTAGGTTTTGAGGTGATGCT
TATTCCTAGTAGTCTTTTCATCTCAGGGATGCAATGAATGGTCAAAATGACCTTCTGAATGATTTGAAAGATCAATTAG
CAGTTTTGAATCCCAAATTTTTAGGTGGTTCTGCTTCAGAAAATCATTATGCTTTTTGGAATAATGTCCATAGCTGCAT
CCTACATTTCAGTGGTTTCAGCTCACTGCTGTTATAGTTTGATGATTTCCTAACAGCAATATTGGTTATGCTAAAGCAG
TTCCCCATTTCACCTGTTGAACCCTTTTTAAAAGATAGAAGAAATTATAGAGGAATCACAATAAGTAAAACGTATTAAA
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CACTTCTTCAGTAATTTAAAACTATAGTGAAATAATGTTTTTTTTTAACTTCTCAATAGGAATTTATTTATTCAGCAAA
AATCAGGAGTTAGGTGCTAGAAACACAAAGATGAACAATACATGGTTTCCTCAAGGAGCTTATAACCTACTAGACATTT
ATTTCATGTTGGCAGAACTTTTAGGATAATTCTCAAAGAAAAAGGGTTATTATGAGGTTGCTACTTTTCTCCTCAAAAT
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Fig. 6 .'31'

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ATTTTCTATGTTAATAATGAAGGAATGACCAATCTGTAGTATATGCAAAAAGTACTGGGTAGAAATATATTAATTTTCT
TGGCTGGGTGTGGTGGCTCACATCTGTGGTCCCAGCTACTTGGGATGCTGAGGTGGGAGGATCACTTAAGCCTGTCAGT
TCCATGCTGCAGTTGAGTCATGATTATATCACTGCATTCCAGCCTGGGCAGGCAACAGAGTGAAACTCTGTCCCCCACC
CACCCCCAGAAAAGAAACATAAAAATTTTCTTATAAAATTTTACTTTTTAGAGTCTCCAGCCTTATTTAATTCAGTTAC
CATATTTGACAAATAAATGGTGGAACCAAGATGTTACCAGGTTTAAGTTTCATATACAGTAGAACTGTGACAGGAACCT
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GCTAAAACAAAATTTATAAGCATCTATATATTTTGCAGCTAGGACAATTATCTACAAACATGATATTTAATGGAAGATA
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AGGCTGCTGTAACAAAGTATCATCAACTGGGTGTCTTATAAACAACAGAAATTTATTTTTTTTTTTACAGTTCTGGAGGC
TAGAATTCTGAGATTAGTGTGCCAGCCTGGTCAGGTTCTGGTGAGGGCTGTCTTTTGGGTTGCAAGTGGCTGACTTCTC
CTATTATCTTCACATGGCAGAAAGAGGGTGAGCTAGCTCTCTGGCTTCTTTTTGTAAAGGCACGAACCCCATTCCTGAT
GGCTCCACTCTCATGACCTAATTATCTTCCAAAGANACCATCTCCAAGCACCAACACATTGGGAATTAGATCTCAGCAT
ATGAATTTTGGGACGATATGAACATTCAGTCNACAACAATGATCCACTAAGCTATTTCTGCCATACCTTTTTTTCTTTT
CTCTTTTCTTTCCTTACTGTTCTTCAGTATGTCTATGTAGAATCTATGCCTTGTAACCAATAAGGTAATGAAAAAAATT
ATAATATTTACCATCTGGAAGAAATTAGGAAAATGATTTTACTTTTAAATTCTTGATCCATATGTTAAAAAATTTCCAA
GGCTATTAAAATATCACTGAACATTGTGATTATAGAGATTGCTATGATTTAATACTTATGTCTTATAGTGAAAAAGTAG
TCCTGGGATATTTTTCTCTCTTTACCTCACCCATCCTCTTCTATGTCAGGTATTTGAATCCCTTGCTTTGTAGTTTTAT
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TGGGTATTTTATAAACTTTGCAGTAAATGCTAACTTCTTATTGGGGAAAACTGCTATAAAGTAAGTGTACAGGTAGGTT
TTGGAGAAATTTTTCTTGCATGGAGTTGAGCAAATGGTGCATCTAACATAAGCTTGGTTTATAGTTTCTGTTTTTCAGA
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TGTTGGGTGTTAAGCCAATAATAAACTCAGCTATTTTAACAACCAAATTATTTTCCTCCTATAAACCAAATTTACAATC
AAGCTACTTAAGAAATAAAGACAACAAATAGAAACTGTTTTAATCTTCATATCCTGACCTAAAAAATAGAAGCACGAAC
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AAAATTGTCAACTGCACTGGGTATGAGTCTGCAAGCATGAAGGAGGCTGGGTGAGAAAGCCTCTTCAAACAGCATATGT
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Fig. 6.[82]

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GTCTAAGGTTTTTGTTATATATATATATATATATATATATATATATATATATATATATACACATATATATATATGGCAG
CTCAAAGGGACTGAGACAGTAAGCCAGACACAGAGGTCAACACCTGCCTTGGGAAGATAAAAAAATTCCAACTGGGTGG
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Fig. 6.33

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AAAAAGGTTGTTTTACTCTAGGTAAAGGAAGTAGCCTCTTCAAAGGCTTTGAAGCAGAATAATGCGGCGGGCGGGGGCT
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CCTTCCTTCCTTCCTTCCTTCCTTCCTTTCTTTCTCTCTCTCTCTTTCTTTCTTTCTTTCATCTCTCTCTCTGTCTC
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Fig. 6.[34]

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GAGACCTGGGATAGTGATGAGTGGGTTTCTTAGTGACCATAGTGAGAATGGTTCATTGGCTTGGTGAGGACAGATGCTT
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GATAGGTATATTAAATGCATTTTTGAATTAATGATATTTCAACTTACAATGGGTTTATTAGGACATAATCCCACTGTAA
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TTTAAAAGCTTGACGAGCATACAAATAATAAATAATTAATGTTTCTAGTAGAAAAGAGGTAAGTAACAGGAACAGAAAT
CTTGGACCATCTTAAATGAACCAATGGGAATGTCACCATGCACATCCTTCCAAACTTTGTTTCAAGCTATTTCATGTCA
AATTTATGCTTATACAAGTGGAATAATATGTATGTTATGTCTTATGTTTAAGGAAGTCTTGACTTATGGAGGGTGAGC
ATTTAGTCTCACTTTTAAACTAACTTAGGAAAATGATCTAAAGCATAGTGAAAAGAACAATAGAGCAAGAGGAATGAGG
TGTTAGTTTAATGAAATAGTTTAGTGAAATAATGCCAAGGACTAATATATTGAAGAGATATTTCTTTAGCTTGGCATAT
TTCAGGAAGCAAGCGGGTGCATTTAATAAATTAAATTTTTATTTAATTATTTATTTTTATTTATTTATTTTTTTAAAGA
TGAAGTTGTGCTGTCACTTAGGCTGGAGTGCAGTGGTGCGATTATAACTCACTGCAACCTTGAACTCCTGAGTTCAAAC
AATCCTCCCGCCTCAGCCTCCCAAATAGCTGGGACTACAGGCATGTGCCACCATGCCTAGCTAATGAAAAAACAAAAAA
AAGTTTATAGAGATGGGATCTCACTTTATTGTCTAGGCTGGTATTGAAATCCTGGCTTCCCACCATCCTCCCACCTTGA
CCTCCGAAAGTACTNGGATTACAGGTGTGAGCTGCCATGCCTGGCCTGGCCTTGCTTTTTTATTTTTTAGCTTTTATAG
CTCCATATCCTCTAATGCCACCACAGTATGATGAGTGGAAATTTGGGTACCATGTTTAGCACTGATTTTCTCTCTTGGC
GAGGAGGCACCACTATCACGCTATGTTGAGTTTTTGGCAGCCAAGATCAGAGGGACTGTCTTGTAATGGCCCCATCCCT
GAGATCTGTGGGAATAACACAGGAGACAGGCACTGACTGCTTCCAGGGGAAGCAACAATCAGTGCACTGAATGCCTTAC
CAAGCTGAGTATCGCTGAACTTCAAAACAGTGCCAGAGGAGTAGAGTTTTTTTAACTTCCTCTGCTCTGTCAACAGCTG

Fig. 6.135

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ACTTAGCTGATTTTTGCCTGTGATGATAATATCCAGAGTGATGACTGGATTCTCATAATCTGCTTCTCTACTGTTAAGG
AGGGATTTTTACCTGATAGCATTTCTCTAATTTTACTTATTTTATTAATTCTTCTATGCCAATTACTTATAAATTTTGG
CTTATTTCTGATCACACTATACCATTTGTAAAACATGAAATTCAAGTTGATTGATTGCTATAATTTTCTCCCATCCATA
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GCCCACAGATCATTGTATGAGTGTGTGTGGGATGGGGGAGGGGGAGAGAGAGAAAGAAGGAAAGAAATGGGTTAAAATTT
CATTTTAAGGAATCATTTTATTGTTGGATTAGAAACTAAAGACTGTCCATAAAAAAGAGGAACCATTCTAAAATTTTCA
TAACTTGCTGTATGTGTGTATTTTATTTCTTAATAAAGCTCAAGTAGTTTCTCATGAAAGTCAATGGATAGAGAGCCAT
TTCAGGACNTGTTTGAATTGGCAGTTGGTTGGAGTTTGGCCATGGCAGGAAAGGACAGCTGTTTGTTGTGGGGCCTTGT
CTCCATGGTGTTGGGCAGCACATCTTCAGCTCTTTCTGGGAAGACCTCAAAGTAGGAATAGACCAAGAAAAACAGCAAG
AGGGCATGACTGCATGGTCAGATGGAATTCAGCCTGTACTGCTCTAGCAGAGCTTCTCCAGGGGTTAGAATGTTTT
GCTTTTATAGTCATCTGGATTGTTTGTTTACTAAGGGTAGAAAGGTCCCAGCCTCACCCAAGACCTCCCGATTCAGTCT
CTGTGGGGAGCTGCTTGGGAATCTGTATGTTAGAGAAGCTCCCAGGATAATTGTGATGTGTGGTCATGTTAAGAGCTG
CTAGTGTAAATAATGGTGAACAGTAGCACTGGCTGGAAGCACTGTAGAAATTGTGTGTGTGTGTGTGTCTGTGTGTGTC
TGTGTGTATTGTGCAAGAGCTATGAGATAAGATCAGGCTACTGGAATTTGCCAAGAAGCAGCACGGGAGACACATTAAC
TAGACGCCAAGGATGTGGCCATAGACTTTCCTAGAAACTCCCTCATCTAGGGTGTGCACGTCTGGATTGCACTGACTAG
TCCTGATTAAATCCTGTATGCATAGGCTCAGTGCAGGCTGGGCTCCAGAAAAGGCCATCCACAATGTTTTCTTTTAAAA
TTCCATACTATTTATCTTTGATTTTCTACCTCCTGCAGGAATCCCTAGATCCAACTTTCTTTGGTGAGTTTGCAGGG
GTTTCTGATGGTTCTCTTGTTTCACGGGTTTCCTTCTTATTTTCTACTCCTTTTATTTGGAATGTCAACCTACAAACTT
AAAAGATTGAGCAAACTTTGTAGGAAAACTACAGAAGTTGGAACCACATATGATGCTTTCTATTATATGCCCAAAGTCT
GTTGTATATGATGAAAATGAGGTTTTTATTTACTTCTTGGTACACCAAACACAAACACTCTCTAATGAGGAAAAGAACCC
AATGAGGGGGAAAATGCTGGATGCCAATGGATGGCAATGATTTATGGAACTCTGGGCTCAGTGGTAGTGAATGATCATC
TTAAGGGAAGACACTATTCTACAGTTCGGTGTAGCTGGGATGACTTTATATCCTAGTTTGCAAGACAGTCCTGGCCTCA
CCTGTTGAGCTGGTGTCCCATCTAGTTAAGATACCTTTCATGCTCCCCAGTGTCCTGGTTGAGATACTCCGTTTATGTG
GTCACCGTGAGGATAGGAAACAGAGAGAGGAGATTTTTCTTTGGATCACTGAATAGTACTCATTTCATTATATGATTTA
TCCCATTCCAGGCTCACCCCTAACATTTGAGGGCCCAGGACAAGACCCCCCTATTCCACAACCTATTCCTTCTCTTCTT
GCCCTGGCTCCACTGTGCAACTGGAGGATCCTTGTAAGAATGTGTGTGGGTGAGCCAGCCTGCTCATTCAACTTTATTC
ACACCCACATCCACTAGCTGCCCATGAACACCCCTCAGGCCTAGGGGTGCGCACACCTGTGAGTTGATCTGCTTCGGGA
GGGTGAAGACACACCCAGGCCCTGGAAGCTGGTTTCGGACCACTTGGGGCAGGAAATTCAAGGGTCATGAGTACTTGGG
GAAGAGTCTAGAAGGGAAGTTGTNCCTGCAGGTGGGTATGTATCACAGCCCTGCCAGACTGCTGGTTCCATGGAGAGGCA
TGGCTGGAGAAGGGCAGGAGAGGGCATTCTGAAGCATCAGCCCCCTGATTAGGGATACCTGGCCCTAGAGTGGTCCTGG
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TCTGAAGTGTTTGGGTTAAGAACGTTTCTCATGTGAATAATGCTTGGTCACCAGACTGAGGTCCAGCGTATTCTTCATC
TGGTCTGATAGAAATCCCTTGTCTTTAAATGTCATATATTTAAGGTAACAACTCTATTTTGTAGGTTGAAACAAAAACT
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GGTGAATGTTTTTTTGTTTGCTGGTATGTTCCACCATGTGTGTGAGCATGAAGGTAGGAAAACTGTTTGCTCAGCCATT
CCCTCTGTGGTTTGGTTTGTTGGAGAATCAGTCAAATGGAAAGGCTTTCCTCTGATGTGATTACAGAATCAAATATTTT
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TGTTAAAGAACTAACTATTATATAATAAATTATCAAACAATTACGCCAAAGGTATGTTTACAAACTCCTGTTCTATCTT
GGTGGGTTGATTAGCTTCCTTGGGGGGTCCAAACAGCTATGGCTTTTCCATTTTTATAAATGGTTCTGCATTTATAAAA
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GCTCAATTTTAACCAATAAATCTTATACCAGAGTGTTCTGCCTGCTTCCGGATGAGCAAGGAGACTTGTGGTCTGGTTC
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CTCTGGGACCGGAGGAGACATTGGCCTCTGCAGGCTTGCTGAGGAAGGGAGAAAAAGAACAGCAAGAAGCAATTGAATG
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GGAACCAGAGAGCTTCTTTACCTGGTTTACTGACCATTCTGATGCAGGTGCTGATGAGTTATGAGAGGTCACCAAAGAT
GATATTTGGTCAAACTCATTACAGTACTTGGTTCCCGATATGGATGATGAAGAAGCAGAATGAGAAGAAGATGATG
ATGATGATGAAGAGGAGGAAGGAGATAAAAAGATAACTAATGAAGAAGACAATGAAGATGAAGGTGAAGATGAAGATGATGA
TGAAGGGAGGAAGGAGAGAAGGATGAAGGAAAAGATTACTAGAACACTGATAGGTTCCAACTTTCCTGTTTAAAAATT
TTTCTCCAGTCCCTGGGAGCAAGTTCCAGTCTTTTCTTTTTCCTCTTGTGCTCTGTTGCCCTGTTGTTGAGGTCTCTTT
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Fig. 6.36

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GCTCTACACCATGGTTCTCAACTTATTGCAGAATACAATGGGAAAAGTGTCTCTACGCCTTTCTGTTTGAAATTCATTT
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GTATCTTGGGCTTAGAGAGTACACGGTGTCTCTATGTGAATATGGACAGTTAGCATTTACCAACATGTATCTGTCTATT
TTCTCTTGTTTAAAAAAAGAAAAAAACTAAAAAACAAAATGGGATTATAGAAGGTCAGCAAAGGGTGGATCTGAGATGT
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CACTGTAAAGGAAAGATGATGCTCAGTTTTAAACGTGAAAAGTACAAGTTGCTTTGTTACAATAAAACTAAATGTATAC
ACATACACACACACACAACACACACACACACACACACAAACTTATACCAAAATCACACCACTTTAGTTAGTTGTCCA
CTGGAAAGGTGCTCTTTGTTTTCGAGCTTCAAAGAAGCTCGTCTTCTTTTATTTGACTGTCGCTAGGGACTCCACTGAG
CAGGAATGACTATTCTGATATTTGCTTGTTACATTTTTGGTTTTCAGAGGTGGCATATTGAGGAGGTGCACTTATGGAT
TGCAGCATAAGTATCCATGAGTCCGGGTGTGGTGCGTGTGCTCACTCATTATCTTGATGTGCTGCTCACTACCACGTCT
CTCCTTTACACTATTGGAAACTTTCATTCTTAATAATTTAATTTATCCCTAGTGACTCCAGCCTCCCATGACAGACTAA
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GGTTCAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAAGCATGTGACACCATGCCCAGCTAATTTTTT
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TCGGAAGAGTTAAATAATTTCCTCACAGCTACTAAGCACTAGAACTAGAATAAGAATGTGTGCTTTCTGACTCTGAGTC
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CTCTCTAAGGTATATTATTGCCTACTATATCCTGTGCCCTGTGCTGGAATTTCTCTTGTGCTAATTTTTATTGATAACA
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CTTTAGCTCTCTTACTGTATACACTCTTCTGTTTTCNCAAATTCTCTCCTCTTTCTCTAAATTCCTCACCCTGTTCCCC
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Fig. 6(37)

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ACCCTTTCCCTGCCTTGTCTCTGGGTTTTTGTCTCTCTTGCCTCATTTTTCCTTCTTTCTCTCTCACTTTCTTCCCCCA
CCCCTTCTCTCTTGTTTACACTCCCCGCTCATGTATGTGCCGCTTCGTCTTTGTGTTTATATCTACCAGGGGAAAGACC
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TGTTTAGCTCCCACTTACGAGTGAAAACATGTGGTGTTTGGTTATCTGTTCCTGTGTTAGTTTGCTGAGGATGATGGCT
TCTGGCTTCATCCATGTCCCTGCAAAGGACATTATCTCATTCCTTTTTATGGCTGCATAGTATTCCATGGTATATATGT
ACCACATTTTCTTTATTCAGTCTATCATTGATCGGCATTTGGGTTGATTCCATGTCTTTGCTATTGTGAATAGTGCTGC
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GGGTCAAATGGTATTTCAGGTTCTAGATCCTTGAGGAATCACCACACTGTCTTCCACAATGGAACCAACCATCTTTTAA
AGTAACAAATGACATCTAAGTGTGAAGTCCGAAGTCAAAGAGCTAGAGAGTCATACAGTTTCAGAGTTGTCGCAGTTTT
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CCAGTAAGAACTATGACAAACAAGCTCAGACAAGTTACTGCAGAGAGGAGTGTACTTAAAGTTAGAAAGCGGGAGAAGT
ACACTTGTCAACAGGCAGAAAAGGAGGAGCTATGGACCTTACAATTGGAAAATGTGATTAAAAAAAAAATAACGAAGCT
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GTATACTGTGATTTACTTGGGCTAATATAAATGTAAAACCCTTTAAGCTAGACCAGCTGTAATTATATTCCCAAAGATT
TGATTTTTATCATTATTTACAGCTAATAAGACATTTATGATCTCTTTTGGTTGTCTCTGTTGAAGCATTGTTGGCAAT
GCTTTCCTGACTTGAAGTTCTCATGTGTGTTGAAATCGAATTAGGAAAATGAGTAAGTAAATAACTTATCCTAAGAGTA
TAATCTCTCCTTTGTGACATAAATTAGAAATCCATTCACATCTGTGGAATAATTCCCAGGTTTGCGACTACACAATCTG
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TGTGCTTTTTAAATAGATGTATCATTTTCTCAAAATTGGATTATAAAGAGCTGATCTGAGCTGCAATCAGATGGATAATT
AAACAGCAAAGGTAAGAGGCTTCTGACTGCCCATGTTTACAGTGTTAATTGAAAAAATAAAAATATGATTTTTAATCCT
AAAGGTAATTTGACCAATGCACATGTACAATGATGTAAGGTTCTCTCACTTTCCATTTTAATCTCAGGATTGTGGAGGC
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Fig. 6 38

ATATATATGAGCTAAATATGGGGTTGAATCCCCACCAATCATATCTTAACAGATTTTTTTAAAAAGGTAAGTATCTGAA
TCAGCTGCTTTATTTTATTTGTCTCTTTCTCATAAAAATGACAATAAAATTATGGTATGTGAACTTCTGATTATTTAGA
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GTGCACAATGTGCAGGTTAGTTACATATGTATACATACCATTTGACGCAGCCATCCCGTCACTGGGTATATACCCAAAG
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CCTGTGTCCATGTGTTCTCATTGTTCAATTCCCACCTATGAGTGAGAATATGCGGTGTTTGGTTTTTTGTTCTTGCGAT
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TCAGGCTTAATATATTTGGATCATAAATAAATATCAGATACCTTTTGGAGGCATTAGAAACTAAACATTATGCAAAGGC
TACCCTCTGTTGCGTCAGGAGCTTGAATTGTTTTCATTAAAATATCTGCTATGAAAGCACTGAGATTAGATGGGATGCT
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GAAGCAACACTCCTGTTCCAGATTTGTATGCTTGAGGTAAGTCAGAAAAGGAATTTCGGTGAGGCATGAGTTTGTTGAT
GAAACGTGGGGGAAAACCAAATGGACATCTTCAGAATGAAAGTGTACGTCTTTGTCTGTCTGAATGTGTGAGAAAGAAG
AACACTGAACACAGTCTAAACCTCCTGCTGGTGTGATTATTGAGTAGTGTTGATGGCCAAAATATGAATGAAGGTTTTT
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GTTCCAATCTATTTTGGATTCAAATGAATTTTGAATCAAATAGATTTAAAATGAATCTATTTTGAATCAACAAAATAGA
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GTTAGACTATACTATAAACAAAGTAAATTTAAAAACATATATCCTCAAAGAACTGTGGCCAGTAAGATAGATACTCTCT
GAGGCTACCCTCCTAGTATAGTAACGGTAATTCTGCTGAAACCAATTAGGCACTGTTGAAAGCAACTTCTCGCTGCCGA
TGAAGGGACTGGATCCTGTAGCTTGGTGTCCTTGTCAAGTCCTCAGTGTGTACTCAGCTTGCCCCTGCTAATACACACT
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TCTTCTGATGAATCTCTTGTCTGTAGTTTTGAAAGGAGGGGAGAAGCAAAGGAATTAGCAATCACAAAGATAAACCTGC
AAAGGCAAACTAAGTAGAAACATGTTTTTCCGTTGCAAATTATGCTTAACTACTATAGGCTGTAATCCCTATGCTGACA
TATCTCAGAATAAAATGTAAGTTGCTTGAGATGCTATTCTGAAGCATGTGATATGGTTTTATTGATTGATAAATTTATC
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GGTGTGCAAGTGCTCCTGTGCTGAAGTGACACCAGAACAATCACCACATTGCCATCAGGCCGTCCATCTGAGGTAGGGT
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CCTACAAATCTCTTTTTTCTGTCCCTTCAACATTTTCAGGTCTAACTACCTGTAGTTTTCCTCTCTAATTTCTGGGCCAA
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AGAGGTGTTACATTAGACTAATGAAGGGATTATAGAAACTTAGCTCTCCATCTGAATTCTCTTATTAACACATCACTGT
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TTTTCCAATTAATTTTACTGACAATTTTTATATAGTACAGATAGTAATCCATGTGTCTATAGGTTGTTTATAATGTAAA
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TATTATTAACTATGGGCATAATGTTGCCCAGCAAATCTCTAGGACTTAATCATTTTACATAACTGGAACTTTATACCCT
CTGAATAGCAAATCCCCATTTCCCCCTTCCCCAGCCCCTGGGCAGTGGTTGAGTCTTTGATGTTTTCCTTTTAAAGTTT
CTGCCTTTGGAGTTAGTTTAGAAATGACTTCATCATCCCAAGATCACACACACTTTTCCTACATTTTCTTCCAGTTTCT

Fig. 6 39

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TTATTTTACATGCAAATCTTAATCCATCTGGAATTTATTTTGTTGTATAGGAGTGCAAGAATTTAACTTTATATTTTTC
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CCTGGGGTGTTTATAACATGGAGGACCTATTTCCTGAGCTACCAGAGTCCTAACACATACCTAATTATGAGTTGGTCAC
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GTGCTTTAGTTGCCTCGGTGAAAAATGGGGATAATCATAGTGCTGCCTTATAGGGTTGTTGTAATAATTAAATGATTAT

Fig. 6.40

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CCTGCACATAGTAAACAGTCAATGAATTTATGCTATTATTATTAGTCTGCTATTTGTGGGCTTTCATATTTTGTCTCAA
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TATTGTATCGGGGACGCATTGTTCTTTTTAAAGGCCACACGGTGTTCTACTTATATGTCATATCATGTACATAGCCAGT
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GCCACCTGCAAGTAGCTTAGGCAGTGGGCAATCATACTTCAATTCTAAAGGGTGTGGAAGGGATGAGTATTTTCTGTTT
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GTCTTGAAAACATTCAAAGGAGAGCTCAGGGAAATAAATGAAAGCTGGTGGATTTCTAAAAATCTTTATTGAGGATTAA
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AATTTCAGAACAAATAATATGGCCACATTTCTTGTTCCTAATAAATTGGTACTACTTGGGATCAATGGATGATTGTTGT
CATTCCCCAAAAGATTTTTTAACAGCAGAACCAGAAAACTAATTCACAAATTATCAATATTCAGCACTTTGATAAAATTC
AGATGAATTTGCCTACCTAAAGAAATGCTACCTGAAAAGCTTCTCTGGCAGGCTTCTCCAGAGTTTCATTATCTACTCT
```

Fig. 6.47

GAACTTTTGTTTACATAGCAATCATTTCTGCTGTGTTCCTTTTCCCTACTAGCCTTGGTAGGCTTCTTAGCTGAATTGT
CCTGAAACCTATAAACCAGCCCTGGAGGCTCTGAAAAATTAAAGATCTGTCTTTTTTGTTCTGTTTAATAAATGTTAGC
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CAAGTTGCAAATAGAAAGAGGTATTCCCCAATTAGAAATAAAATATTGGGCTTCAGTTTCAAAAAAAAATCTTGAAAGC
TACATGCTCCATAGACTTCTAAGCAAAGAGAGTCAAGAGACAATCATCTTCATAACTAACACCAATTGTCATAAAGCTT
CCAAATGTAAACCTAAACTTTTTGTTAGGAGTAAAAATAAAAAAGCCAAACAAATGAAAAGCTGTGAACTTTCTAAAAC
ATCTTAAAGATTCTCTGGAAATTTAAACATTTAAGTTATATGTTAAGTTGTGTCTATCAAGCAGGTACTTTAGAAAAAG
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CAGCCTTTGGTTTCTGATAATTTAGAAAGCTTTCAATCCCCATCACTTATGAAAGTCTGTGAACAATAATTTTTATTTA
AAGATTTCTTACAGTGCCGAATCTTACAACCATTTATAAATTCATGTCATGTTTTCTTAAAGTTACAGAACTCTTTTCA
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TGAGCATAGTACCCAATATGTAGTCTTCTGATCATCACCTTCCTCCTACCCTCCACCCTCAAATAGGCCCCGCTGTCTG
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AGCCAGAAAAAGCCTTGGACCACACAGATTCACAGCAAAATTCTANCAGACATATAAAGTAGAGCTGGTACCATTCCTA
CTGAAACTATTCCAAAAAATTGAGGAGGAGGAACTCTTCCCTAACTCATTCTATGAGGCCAGCATCATCCTGGCAAAGA
CAAAGCAAAGACATAACAACAACGTAAAAACTTCAGACCAATATCCTTGATGAACATAGATGCAAAAATCCTTAACAAA
ATACTAGCAAACTGAATCCAGCAGCACATAAAAAAAACTAATCCCCTCTCCCTCTCCCTCTCCCTCTCCCTCTCCTTCT
CCCCACGGTCTCCGTCTCCCTCTCTTTCCACGGTCTCCCTCTGATGCCGAGCTGAAGCTGGACTGTACTGCTGCCACCT
CGGCTCACTGCAACCTCCCTGCCTGATTCTCCTGCCTCAGCCTGCGAGTGCCTGCGATTGCAGGCCTGCGCCGCCACAC
CTGACAGGTTTTCGTATTTTTTTGGTGGAGACGGGGTTTCGCTGTGTTGGCCGGGCTGGTCTCCAGCTCCTAACNGCGA
GTGATCTGCCCAGCCTCGGCCTCCCGAGGTGCTGGGATTGCAGATGGAGTCTGGTTCACTCAGTGCTCAGTGGTGCCCA
GGCTGGAGTGCAGCGGTGTGATCTCGGCTCGCTACAACCTCCACCTCCCAGCCGCCTGCCTTGGCCTCCCAAAGTGTCG
AGATTGCAGCCTCTGCCCGGCTGCCACCCCGTCTGGGAAGTGAGGAGCGTCTCTGCCTGGCCGCCCATCGTCTGGGACG
TGAGGAGCCCCTCTGCCTGGCTGCCCACTCTGGAAAGTGAGGAGCGTCTCTGCCCGGCCNCCATCCCATCTAGGAAGTG
AGGAGCGCCTCTTCCCGACCTCCATCCCATCTAGGAAGTGAGGAGCGTCTCTGCCCGGCCGCCCATCGTCTGAGATGTG
GGGAGAGCCTCTGCCCCGCCGCCCCGTCTGGGATGTGAGGAGCGCCTCTACCCGGCCGCGAACCCGTCTGGGAGGTGAG
GAGCGTCTCTGCCCGGCCGCCCCATCTGAGAAGTGAGGAGACCCTCTGCCTGGCAACCGCCCCGTCTGAGAAGTGAGGA

Fig. 6. 42

GCCCCTCCGCCCGGCAGCTGCCCCGTCTGAGAAGTGAGGAGCCCCTCCGCCTGGCAGCCACCCCGTCTGGGAAGTGAGG
AGCGTCTCCGCCCAGCAGCCACCCTGTCTGGGAGGGAGGTGGGGGGGTCAGCCCCCCGCCCGGCCAGCCACCCCATCCG
GGAGGGAGGGGCGCCTCTGCCCGGCCGCCCCTACTGGGAAGTGAGGAGCCCCTCTGCCCGGCCACCACCCCATCTGGGA
GGTGTACCCAACAGCTCATTGAGAACGGGCCATGATGACAATGGCGGTTTTGTGGAATAGAAAGGGGGGAAAGGTGGGG
AAAAGATTGAGAAATCGGATGGTTGCTGTGTCTGTGTAGAAAGAGGTAGACATGGGAGACTTTTCATTTTGTTCTGTAC
TAAGAAAAATTCTTCTGCCTTGGGATCCTGTTGATCTGTGACCTTACCCCCAACCCTGTGCTCTCTGAAACATGTGCTG
TGTCCACTCAGGGTTAAATGGATTAAGGGCGGTGCAAGATGTGCTTTGTTAAACAGATGCTTGAAGGCGGCATGCTCGT
TAAGAGTCATCACCACTCCCTAATCTCAAGTACCCAGGGACGCAAACACTGTGGAAGGCCGCAGGGACCTCTGCCTAGG
AAAACCAGAGACCTTTGTTCACTTGTTTATCTGCTGACCTTCCCTCCATTATTGTCCTATGACCCTGCCAAATCCCCCT
CTGCGAGAAACACCCAAGAATGATCAATAAAAAAAAAAAAACAAACAAACAAAAAACAAAACACAAACAAAAAAGAAAG
GTTTGAGCTAAGAACTTGCAGGAGACAAGGAAATTAGTCAAGCAGAAGGATATCTGGGGGAATGGCATGCGAGGCAGAA
GGGAAAGCTAGGGTCGAGGCCCTCAGGGAAAGAAGCAAGGCCAAGGGGCTGGAGTAGAGGGAGGAAGAGGGGAAGTAGT
GGAAGATGAGACTAGCTTTACTACTGATTATGATGTAAGAATAGTGGCCAGTTTCCTTTCCAACTTGGGCCCGGCAGAA
TGGCTCCTGCAAAGAAGGGTGATGAGAAGAAGAAGGGTCATTCGCCATCAACGAGATGGTGACCCGAGAATATCCCATC
AACATTCATAAGTGCATTCATGGAGTGGGCTTCAAGAAGCGTGCCCCTCAGGCACTCAAAGAGCTCCGGAAACTTGCCC
TGAAGGAGATGGGAACTCCAGATGCACACTTTGATACCAGGCTCAACAAAGCTGTCTGGGCCAAAGGAATAAGCAACGT
CTCATACTGTATCCATGTTCGGTTGTCCAGAAAATGTAATGAAGATAAAGATTTACCAAACAAGCTCTATACTTTGGTT
GCCTACGTACCTGTTACCACTTTAAAAAAATCTACAGTCGGTGTGAATGTGAACTAACTGCTAATCATCAAATATACCA
AATAAAGTTATAAAATTGTTTAAAAAAAAAAACAAAAAAAAAAAAACTAATCCACCACCATTGAGCAGGCTTTATCCCT
AGGATGCAAGACTGATTTCAACATATGCAAATCAATAAATGTGATTCACCACATGAACGGAATAAAAACAAAAAACACA
TGATCATCTCAATAGATGCAGAAAAGGCTTTTGATAAAATTCAGCAACCTTCATGTTAAAAACCTTCAAAAAACTAGGC
ATTGAAGGACATACCTCAAAATAGTAAGCCATCCACAACAAAACCCACAGCCAACATCACACTGAATGGGCAAAAGCTG
GGAGTATTCCTCTTGAGAACTGGAACAAGACAAGGATGCCCACTCTCACTGCTCCTATTTAACATAGTATTGGAAGTCC
TAGCCAGAGCAATAAGGGAAGAGAAAGAAATAAGAGGCATCCAAATAGGAAGAGAGAAATCAAACTACCTCTGTCAAA
CTACCTAGAAAACCCCATAGTTTTGCCCAAAAGCTCCTAGATAACTTCAGCAAAGTTTCTGGATACAAAAATCAGTAGC
ATTTCTCTACACCGATAATGTCCAAGCTGAGTGCCAAATCAAGAGCATAATCCTATTCACAATAGCCACAAAAAATAAC
ATATCTAGAAATATAGCTAACCAGTGAAGTGAAAGAGCTCTCCAATGAGAATTACAAAACACTGCTGAAAGAAATCAGA
GATGACATAAACAAATGGAAAAACATTCCATGCTCATGGATAGGAAGAATCTCCTCTGAAATCTTATAGCTAGAGAAAC
CATAACATTTATCATACAAATTTGGCATTTTTTGAGGGTGAATGAATGGGAGAACTATTAGTAGTCACATTGGGACAAT
AATCATAAACTGGAACTATCCTGTGTAAACTGGATGTATTGTCACCCAAGTTATTGCCTTTTGGGATCCTAACTGTTAG
TATCAAGGACTTTGGACCGAAGTCTGTCTGGTTCCAAATTCTGGTTCTCAGCATGACTTTGAGTAGATTATTATATCCT
TTGCCATTCACTTATTCTTTTTATAGCTTCTTACTAAGCTTGTATTAGATGTGTGCAAATTGTAAGGCATTGGTAACAC
AATGGTAAATAATATTTATGGTTTGTGCTGTCATGAAGCTTACATCCAACTTTATCTACAAAGTGGGGCCAAGGATACC
TACATTATGAAAATTCTTTATATCATCGTGAGAAGTAAATACTATTTGTGAAGCATTTAGTAGGATTTTCAGTATATAG
GAAGTCCTCAGTGATAACTATAATTTTATTTGTATTTTTCATATGCCATTTTGTTGCATAGTCGCATGTATAATTGTAA
GGTTTTTGAGAGTAGGAGGCAAGGCTTATGAACATTTACATACCTTCAGGCATCAGTATAGTAGCCTCTCATTGCATGA
ATGAATTTATTGAGTGAATTCCACTAAACACCAGGTATCAAACTTTTTTTTTTTCTCATTATCTCTTCTGTTTTTTGTT
CCTCTGTTGTTTCTTTCCTGCTCTTTTCAGAGCATTTGAATATTTTTTAGTGTGCCATTTTATTTTTTCTATTGGCTTT
TAGTTATACCCCCTTATCTCTCTGTTTATCATTTATCTTCCTTTTTAATTTAATTTTCTTGATTGCTCAAGGGCTAAAA
ATATGCAGCCCCTATGCATTAGAATCTATTCATACTCAGTATTGTACCTCTCCACATTTCACACTTAACATTTGACAAA
TGTAGTAAACTTACAACATTTTATTTCAATTTAGTCATCCTCTTTCTTTTATTTTCTTTTTATTTTTTTGAGACAGGGT
CTTGCTCTCACCCAGGCTGGAGTGCAATGGCACAATCATGGCTTACTGTAGCCTCAAACTCTGGGGCTCAAGCAGTCCT
CCTGCCTCGGCCTCCTGAGTAGCTGGGACTCAGTCATGTGCCACCACACCTAGTTAATTTTTTATTTTTATTTTTAGTA
GACATGAAGTCTCACTATATTGCCCAGGCTGGTCTCAAACTCCTGGGCTCAAATGATCCTCCCTGCTCTGCCTCCCAAA
GTGCTGGGATCACAGGCATGAGCCACAACACCTGGCCTCATCTCCCTTTCTTTGTATGGTTATTGTCATATTCATTATT
TTAACATGTCATAACCCCAACCTTAGAGTGTTTTCACTTTTGCCTTAAATAGTAGTCTTTAAGGAAATTCTAAGAAAGA
AAACATACTACTTTATATTTAGTAATTTACTTAACATTTCCAGTGCTCTTTTTCTTTCTTACTGTAGATCTGAATTTCC
ATCTGGTATCAGTTATCTTCAACTTTTTGTATTTCTTATAGTGTAGGTCTGCTGGTGATTAATTTTCTCAGCTTTTATT
TATCTGAAAGTGCCTTTATTTTCTTCCCATTTTTGAAGAATATTTTTGTTGGTTGTAGAGTTCTGAGTTAACAGCTTTG
TTTTCGTTTTTCCTTTCAGCGATTTAAAAAATTCCATGCCATTGGGGTTTTCAGTCCCCACTGTTTCTCATAAGCCCATG
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TGTGCTGCAGTTTTATTACAATGTGCCTGGGTGTGGTTTTCTTTATATTTATTCTTCTTGGGGTTTGCTAAACTTCTTG
GATCTGTTTGATCGTTTTGAAAAGTTTTCAGCTGTTATTCCTTCAAATATTTTTTTCTGGCCCATTCTCACTCGCTTTT
CTTTCTAGGATTCCAATTACATTTACGTTAAGACTATTTGGTATTGTCCTACCTATTCCTGAATCTTAGTTCATCTTCC
TGATTATTTTCCCCACTCTTCCTTTCTAAGATTAAATAATTTCTACTGATCTGTTTTAGGTTCTCTTTTCTTCTGCCAT
CTCTAATCAGCTATTCAGACCTGTCCACTAAATTGTTCATTTTTATTTTTTTTTAGTTCTAGAATTTTTCATTTGGTTAT
TTTCTCTGCCTAGACTCCTCTATTCACTCTTGAGATCATATTTCCTGTCATTCTTTGGACATATATATTTAAAATTCT
TTAACATATTTACAAAAGCTGCTTTAGATTCTTTGTTTGGACATATCTGGGTAATTTTGAGATTTGTTTGTATTTACTG
AGGTTTGTTACATATGTATACATGTGCCATGTTGGTTTGCTTCACCCATCAACTCATCATTTACATTAGGTATCTCTCC

Fig. 6.153

TAATGCTATCCATCCCCCACCCCCCACACCCCCCCAACAGGCCCTGGTGTGTGATGTTCGCCACCCTGTGTCCAAGTGT
TCTCATTGTTCAATTCCCACCTATGAGTGAGAACATGTGGTATTTGGTTTTCTGTCATTGTGATAGTTTGCTGAGAATG
ATGGTTTCCAGCTTCATCCATGTCCCTGAAAAGGACATGAACTCATCCTTTTTCATGGCTACATAGTATTCCATGGTAT
ATATGTGCCACATTTTCTTAATCCAGCCTATCAATGATGGACATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATAG
TGCCGCAATAGACATACGTGTGCATGTCTTTATAGTAGAATGATTTATAATCCTTTGGGTATATACCCAGTAATGGGAT
GGCTGGGTCAAATGGTATTTCTAGTTCCAGATCCTTGAGGAAACGCCACACTGTCTTCCACAATGGTTGAACTAATTTA
CACTCCCACCAAGTGTAAAGGCATTCCTATTTCTCCACATCCTCTCCAGCATCTGTTGTTTCCTGACTTTTTAATAATT
GCCATTCTAACTGGTGTGAGATGATATCTCATTGTGGTTTTGATTTGCATTTCTCTGATGACCAGTGATGATGAGCATT
TTTTCATGTGTCTGTTGGCTGCATAAATGTCTTCTTTTGAGAAGTGTCTGTTCATATCCTTCGCCCACTTTTTGATGGG
GTTGTTTGTTTTTTTCTTGTAAACTTGTTTAAGTTCTTTGTAGATTCTGGATACTAGCACTTTATCAGATGGGTAGATT
GCAAAAATTTTCTCCCATTCTGTAGGTTGCCTGTTCACTCTGATGGTAGTTTCTTTTGCCATGCCGAAGCTCTTTAGTT
TGATTAGATACTATTTGTCTATGTTGGCTTTTGTTGCCATTGCTTTTTGGTGTTTTAGTCATGAAGTCCTTGCCCATGC
CTGTGTCCTGAATGGTATTGCCTAGGTTTTCTTCTAGGGTTTTTATGGTTTTATGTCTAACATTTAAGTCTTTAATCCA
TCTTGAATTAATTTTTGTATAAGGTGTAAGGAAGGGATCCAGTTTCAGCTTTCTACATATGGCTAGCCAGTTTTCCCAG
CACCATTTATTAAATAGGGAATCCTTTCCCCATTTCTTGTTTTTGTCAGGTTTGTCAAAGACCAGATGGTTGTAGATGT
GTGGTGTTATTTCTGAGGCCTCGTTCTATTTCTTGGTCTATATCTCTGTTTTGGTACCAGTACCATGCTGTTTTGGTT
ACTGTAGCCTTGTAGTATAGTTTGAAGTCAGGTAGCGTGATGCTTCCAGCTTTCTTCTGTTGGCTTAGGATTGTCTTGG
CAACGTGGGCTCTTTTTTGGTTCCATATGAACTTTAAAGTAGTTTTTTCCATTTCTGTGAAGAAAGTCATCGGTGGCTT
GATGGGGATGGCATTGAATCTATAAATTACCTTGGGCAGTGTGGCCGTTTTCACAATATTGATTCTTCCCATCCATAAG
CATGGAACGTTCTTCCATTTGTTTGTGTCCTCTTTTATTTCGTTGAGCAATGGTTTGTAGTTCTTCTTGAAGAGGTCCT
TCACATCCCTTGTAAGTTGGATTCCTAGGTATTTTATTCTCTTTGTAGCAATTGTGAATGAGAGTTCACTCATGATTTG
GCTCTCTATTTGTCTGTTATTTGTATATCAGAATGCTTGTGATTTTTGCACATTGATTTTGTATCCTGAGACTTCGCTG
AAGTTGCTTATCAGCTTAAGGAGATTTTGGGCTGAGATGATGGGGTTTTCTAAATATACAATCATGTCATCTGCAAACA
GGGACAGTTTGACTTCCTCTTTTGCTAATTGAATTCCCTTTATTTCTTTCTCTTGCCTGATTGCCCCAGCCAGAACTTC
CAACACTAAGTTGCATAGGAGTGGTGAGAGAGGGCATCCTTGTCTTGTGCTGGTTTTCAAAGGGAATGCTTCTAGTTTT
TGCCCATTCAGTATGATATTGGCTGTGGGTTTGTCAAAAATTGCTCTTACTATTTGGAGATACATTCCATCATTATGTA
GTTTATTGAGAGTTTTTAGCATGAAGGGCTATCGAATTTTGTGAAGGCCTTTTCTGCATCTATTGAGATAATCATGTG
GTTTTTGTCATTGGTTCTGTTGACGTGATGGATTATGTTTATTGATTTGAGCATGTTGAACCAGCCTTGCATCCCTGGG
ATGAAGCTGACTTGATTGTGGCAGATAAACTTTTTGATGTGCTGCTGGTTTCAGTTTGCCAGTATTTTATTGAGGATTT
TCTCATCGATGTTCATCAGGGATAATGGTCTAAAATTCTCTTTTTTTGTTGTGTCTCTGCCAGGCTTTGGTATCAGAAT
GATGCTCATAAAATGAGTTAGGGAGGATTCCCTCTTTTTCTTTTGATTGGAATAGTTTCAGAAGGAATGTTACCAGCTC
CTCTTTGTACCTCTGGTAGAATTCAGCTGTGAATCCATCGGGTCCTGGACTTTTTTTGGTTGATAGGCTATTAATTATT
GCCTCAATTTCAGAGCCTGTTATTGATCTATTCAGGAATTCAACTTCTTCCTGGTTTATTCTTGGGAGGGTGTATGTGT
CCAGGAATTTATCCATTTCTTCTAGATTTTCTAGTTTATTTGTGTAGAGGTGTTTATAGTATTCTCTGATGGTAGTTTG
TATTTCTGTGGATCAGTGGTGATATCACCTTTATCATTTTTTATTGCATCTATTTGATTCTTCTCTCTTTTTATTAGT
CTTGCTAGCAGTCTATTTTTTTGATCTTTTCAAAAAACCAACTTCTGGATTCATTGATTTTTTGAAGGGTTTTTTGTGT
GTCTCTATCTCCTTCAGTTCTCCTCTGATCTTAGTTATTTCTTGTCTTCTGCTAGCTTTTGAATTTGTTTGCTCTTGCT
TCTCTAGTTCTTTTAATTGTGATGTTAGGGTGTCGATTTTAGATCTTTCCTGCTTTCTCTTGTGTGCATTTAGTGCTAT
AAATTTCCCTCTACACAGTGCTTTAAATGTGTCCCAGAGATTCTGGTATGTTGTGTCTTTGTTCTCGTTGGTTTCAAAG
AACATCTTTATTTCTGCCTTCATTTCATTATGTACCCAGTAGTCATTCAGGAGTAGGTTGTTCAGTTTCCATTTAGTTG
AGCAGTTTTGAGTGAGTTTCTTAATCCTGAGTTCTAATTTGATTGCATTGTGGTCTGAGAGACAGTTTTTTGTAATTTC
TGTTCTTTTACATTTGCTGAGTAGTGCTTTACTTCCAATTATGTGGTCAATTTTAGAATAAGTGTGATGTGGTGCTGAG
AAGAATGTATATTCTGTAGATTTGGGGTGGAGAGTTCTGTAGATGTCTATTAGGCCCGCTTGTTGCGGAGCTGAGTTCA
AGTCCTGGATTTCCTTGTTAACCTTCTCTCTGGTTGATCGGTCTAATATTGACAATGGGGTGTTAAAGTGTCCCATTAT
TATTATGTGGGAATCTAAGTCTCTTTTTAGGTCTCTAAGGACTTGCTTTATGAATCTGGATGCTCCTGTATTGGGTACA
TATATATTTAGGTTAGTTAGATCTTCTTGTTGAATTATCTCTTTACCATTATGTAATGCCTTTCTTTGTCTCTTCTGAT
CTTTGTTGGCTTAAAGTCTGTTTTGTCAGAGACCAGGATTGCAACCCCTGCTTCTTTTTGCTTTCCATTTGCTTGGTAG
ATCTTCTTACATCCCTTTATTTTGAACCTATATGTTTCTCTGCATGTGAGATGGGTCTCCTGAATACAGCACACTGATG
AGTCTTGACTCTTTATCCAATTTGCCAGTCTGTGTCTTTTAATTGGAGCATTTAGCCCATTTACATTTAAGGTTAATAT
TGTTATGTGTGAATTTGATCCTGTCATTATGATGTTAGCTGGTTATTTGCCCATTAGTTGATGCAGTTTCTTCATGGT
GTCGATGGTCTTTACAATTTGGCATGTTTTTGCAGTGGCTGGTACCAGTTGTTCCTTTCCATGTTTAGTGCTTCCCTCA
GGAGCTCTTTTAGGGCAGGCCTTGTGGTGACAAAATCTCTCAGCATTTGCTTGTCTGTAAAGGATTTTATTTCTCCTTC
ACTTACAAAGCTTAGTTTGGCTGGATATGAAATTCTGGGTTGAAAATTTTTTTCTTTAAGAATGTCGAATATTGGCCCC
CACTCTTTTCTGTCTTATAAGGTTTCTGCCGAGAGAGCTGCTGTTTGTCTGATGGGCTTCCCTTTGTGGACAACCCGAC
CTTTCTCTCTGGCTGCCCTTAACATTTTTTCCTTCATTTCAACCTTGGTGAATCTGAAAATTATGTGTCTTGGGGTTGC
TCTTCTTGAGGAGTATCTTTGTGATGTTCTCTGTATTTCCTGAATTTGAATGTTGGTCTGCCTTGCTAGTTTGGGGAAG
TTCTTGTGGATAAATATCCTCCAGAGTGTTTTCCAACTTGGTTCCATTCTCCCCGTCACTTTCAGGTACATCAATCAGAC
GTAGATTTGGTCTTTTCACATAGTCCCATATTTCTTGGAGGCTTTGTTTGTTTCTTTTTACTCTTTTTTTCTCTAAACTT
GTCTTCTTGCTTTATTTCATTCATTTGATCTTCAGTCAGTGATATCCTTTCTTCGACTTGATCTAACAGGCTATTGAAG
CTTGTGCATGCATCACGAAGTTCTCGTGCCATGGTTTTCAGCTCCATCAGGTCATTTAAAGTCTTCTCTACACTGTTTA

Fig. 6.45.

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TTCTAATTTGCCATTCGTCCAACATTTTTTAAAGATTTTCAGCTTCCTTCAATGGGTTAGAACATGCCCCTTTAGCTTG
GAGAAGTTTGTTATTACCATCCTTCTGAAGCCTACTTCTGTCAACTTGTCAAAGTCATTCTCCGTCCAGCTTTGTTCCA
TAGCTCGTGAGGAGCTGTGATCCTTTGGAAGAGAAGAGGCACTCTGGTTTTTAGAATTTTTAAATTTTCTGCACTGGTT
TCTCTCCATCTTTTTGGTTTTATCAACCTTTGGTCTTTCATGTTGGTGACCTACAGATGGGGTTTTGGTGTGGATGTCC
TTTTTGTTGATGTTGATGCTATTCCTTTCTGTTTGTTAGTTTTCCTCCTAACAGTCAGGTCCCTCAGCTGCAGGTCTGT
TGGATTTTGCTGGAGGTCCACTCCAGATCCTATTTGCCTGGGTATCACCAGTGGAGGCTACAGAACAGCAAATATTGCT
GCCTGATCCTTCCTCCATAAGCTTCGTGCTAGAGGGGCACCTGCCTGTGTGAGATGTCTGTCAGCCCCTACTGGGAGGT
GTCTCCCAGTTAAGCTATGTGGGGGTCAGGGACCCACTTGAGGAGGCAGTCTGTCCGTTCTCAAAGCTCAAACGCCATG
CTGGGAGAACCACTGCTCTCTTCAGAGCTGTCAGACAGGGATGTTTAAGTCTGCAGAAGCTTCTGCTGCCTTTTTTTCA
GCTATGCCCTGCCCACAGAGGTGGAGTCTATAGAGGCAGTAGGCTTTGCTGAGCTGTGGTGGGCTCTGCCCAGTTCCAG
CTTCCTGGCCACTTTGTTTACCTACTTAAGCCTCAGCAATGGTGAACACCCCTCCCCCCACCAGGCTGCTGCCTCGCAG
GTCAATCTCAGATTGCTCTGCTAGCAATGAGCAAGTCTCCATGGGTGTGGGACCTGCTAAGCCAGGCACAGGAGAGAAT
CTCCTGGTCTGCTGGTTGCTAAGACAGTGGGAAAAGCGCAGTATTTGGGCGGGAGTGTCCTGTTTGTCATGGCTTCCCT
TTGCTAGAAAAGGGAAATCCCCCAACCCCTTGTACTTCCCAGGTGAGGCGATGCCCCACCCTGCGCTGGCTCCCGCTCC
ATGGGCTGCACCCACTGTCCAATCAGTCCCAATGAGATGAACCAAGTACCTCAGTTGGAAATGCAGAAATCACCCATCT
TCTGCATCGATGACGCTGGGAGGTGCAGACTGGAGTTGTTCCTATTTGGCCATCTTGGAATGGAGATCTTATTTCTTTA
TCTGGTGATTTTTTATTGCATACTGGACATTTTGGACAATGTGTTATCATGCCTCTGGATTGTGTTATTTTCTTCTGAA
GAATTTTGCTTGTTATCTTAGCATGCTGTTCAATTGGCTGATCACGTTGAACATGTTTAAGCATGGTTTTAGGCTTTGT
TAGTCCAAATCTTTGAGAAATCCCAGGTGCTTTCCCAACCTATTCAACCTGGCAGTATTCAGTGTTGATAGAGGATGTT
TTTCTTGATGATAGGCTTTGTTTTTAGACTTTACTGGAGTCATAGGACTTACTTTAGGACATAGTCTTTACTTGTAGAGA
GGTACCAACTTTCTGTTTCTCAGGTAGATCCCAGGGGTGTCAAAGTAGTATTTATTTATGAGCTCTCTCAAACCCATAG
GACCTGAACTGCAATGATGTCTAGTACTATTCTTCTTCCAGCATTACTTGACCTCCACTATTTCTGTTCTCTCAACCTG
ATAACATTTTCTCTCTGTTAAGCCTCCAGTATTCTCACTCTGCAAATGTATGGTGGTGATCTCAGTCACAGATTTGTCC
CATGTCTGGGACAAATCTCTGCAAAACTTCTGAGACTTCTCTGTGTTAAAGTCTTTACTCTCTAAGACTCTGCTTTATA
GATGCCAGCCATGCCAGCTGCCTCAGACTCCAGCTCTTTTTGTCATGTTTAGGAAAATATCCTTATTCACAGAGGTGGA
CATTCGTGGGCAGAGGGATTTCAGTTCTGGATTGGCTTGTTAGCCACTGTTTGAAAACGGTTTCCTCATATATTTTACT
TAGTTTTGTAAGTATTTTCTGTGAGACAGATAATCTGTTACTAGTTACTCTATCATAGCTGGAAGCAGAAATATATAGG
TATCAATTTGATTTGCAATTGTTTCTAGTTTACAATGCATTCTGCCTATCTTAAAAAATTTGTAATTCTAATCATTTTA
TTTTTGATCAGGGAATGTATTTATTGATTCACATGAATAAAATTCAAAGGCTATAGAAGAATATGTAGCAAAAAATCTC
TCTTCTAATCTAGTAGCCTAATTCTTCTCCTCAGAGGTGATAGATATTACCAGTTCTTTTTGTTCCCTTTCAGACATAT
TTTAGATATATATGAAATCCTCTCCCTCTTCTTATTTTCCTCACATAAATGATAGCATGATGTGCATACTTTATATTTT
TTTGTGTTTTGTCTTTTTTTCTACTTAATGACATATCTTGGAGGCTATACATATTAATATATAAAGAATTTCTACATTCT
TTTTTGGGCTACATGATACTCAGTTTTATGAAATACCATGAATTATCTCACCAGATTCCTATTTTTACTCATACTTTTT
GGTTATTATAAACAATGCTTCATGAACTACTTTGGGTAAACCATTTGGTATATGCCAGTATATCTGTAGGATACATTCA
TAAAAGTGCAATTGCTACCTGAAAATGTATGCACATTTGTTACTTAGTTAAATGTTGCCAAATTTCCCTCCAGCAGCTG
TGTTAGTGGCTGTAGCCTCGTTAAAAATGTATGGGAGGAATGCTGACATTTTTGTTTTACCTGCAGTATCCATTTTCTC
CATGGTACATCTACAAAATTGGCTTCTATTTTTTATTCTTATGTTTATCTTAATCTTTTAATAATCTTTCCCTGATTAA
CTTACAAGTTTCTTGTTATAACAAATAAGGGGGCTAAGGGGGAGGGGGATGGTTAATGAGGAAAAAATAGAAAGAATGA
ATAAGACCTACTATTTGATAGCACAACAGGGTGACTAGAGTTAGTAACTTATTTCTACAATTAAAAATAACCGAGAGTG
TAACTGGATTGTTTGTAACACAAGTGATAAATGCTTGAGGGAATGGATACTCCATTCTCTATGATGTGATTATTTCACA
TTGCATGTCTCTGTGTAAACATCTCATGTACCCCATAAATATATTATACCTACTATGTACCCAGAACAATTAAAAATAA
AAAAATTTAAAGTACAAAAAAAGACAAAAAGAGTCACACAGAAATAAAGGAAAATAGTCTATAGAAGGATAAAAAACA
AAACAAAAAAACAAATAAGATAAGCAGCAGCGATTTATATAAATTAGAGTTATTATTATTACTGTGGTTGCTGTGGTTG
ATTTTCCTAATATTCCAGGGCACGAATCAGCTGATAATATCCATTTTAAAAGTGCAATTTTATTTCCATTTAGTCAGT
CTGATTTTCAAATTATTCTCCCCTTTTTGTGCTTTAAAAATAGGGGTATAACATATGCTAGCCTGTTCCCAATTTGAAC
TCGTGTCTTTCAAATGCACAGTCTAACTTTATTAATTCTGTATGGAATCATGTCCTGTGAGCTTTCTAGCTTTTCTTTC
TTTCTTGTTTTTTTTTCCTTTACCTCACTTGCTCTTCTGAATTTGAGGAGCTAAAGATATTTGTGACAAGACTTAGCTAC
TCAATGAACATTCCGAATCAATGTTTTCCTGTGGAAACAGTGACTCTGATGGAATCTTCTCCACTTCCTGGAACATTAA
ATTGTCACTAGGTAATTCAGGAGTCTCTTTTTCAGGTTCTTGTCTGCAGTATACTGAAAAGTGAATTGTGACCTCATTG
TTATGAAATTTGGAAGTGTTTATCTTTAATGTTAGCTTAGAGTGTTTTTTTTTCCCTCTCTCTTGCATTCCCTTTAAAC
CCTGACCATTTAAACATTATAGACAAGGACATTTCTCATGTGTTTGTCTTTCTCTAAATCTGTTAGTACTTTAAACTGT
GTGGTCCCAACACGATGTTGTACTATACTTGTGGAATCAACACTCAAAAGAGCCCATTCAGAAGAGTTTTTTTTCTTCT
TCTTGGTAACTGCTTTCTAAAAAAAATTCTTCTTTATATTCTAAAGCTCTAAGCCCCCAAGCCCCATCCTCCCATGTTG
AGATTCCTGTTGCCACCTGCCTTTGACTCTTCTATGTCCTCCTGTCAAATACCCTTCCTGGCCTATTGTTCCAACTTAT
TATAAAACACTGTAACTGAATGGCTTGAAAAGATGTTGCGAATGTAGTTGATTTTTCCTCTGAGAAACAAGTGTGTTAG
CTTCTTTGGAGAATGTATTAACTGGTACTACTGGCACTACTAAGCTCTAGGCTTAGAACTGTGTGAGGGAAACAAAAAA
CAGAACAAAGATATGCAGAAGTCTGGTTTTTGCCCTCCAGGAGTGCAATGGTTGTGAGTGTAGGATCTGAACTCAAGCA
GACAGATGTAGGCTGGATGATCTTGGGTGAGGTACACTAAATCTCAGTTCTCTCATCCGTGATACAATTGTACTCATCT
CACAGATTAAACAAGATAAATCTGTGGGGAGAATCCGCCCCAGAATTGAGAGAGGCTGTTCTCTGGGCACACTTGCTTT
ATGTGGTCTTTTCAATTGCTGTCAATCAGTTTTTAAAATCTGGTTGCCCAAACACCATTGTGGCTATTACCATGACTAC

Fig. 6.165

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TTCATGTTCTGGCTGTTCTGGCAGTACAAATGAGTCTGGACATCTACTTCAGGTAAATTGGATGTTTGATTAATTAATA
ACCATGTAGGCCATTTGTAGATGGAATCGCACAGTGTGATTAGTCATGGTAGCATGAAGACTTTAACAGGCCAATCCCT
ACATCTCAATGGCTTTATATATTACATATTTATTTCTTGTTCGTATCACATTACAATGTGGATTGGGGGTAAAGTGGGA
CACAGCATGTTCCACAAAGTTATTCAGATTCCCAAGCTGTTTTTACCTAGTTCATTATCCTCTAAAGCCCCAGAGTCTT
GGATATTAATTTCTCTGAAGGAAGAGTGTATGATAGTGTGTCCAGAATTGGTGGGCTCTTGGTCTCACTGACTTCAAGA
ATGAAGCCGCGGACGCTCATGGTGAGTGTTACAGTTCTTAAAGGCAGTGTGTCCAGAGTTTGTTCCTTCTGATGTTCGG
ATGTGTTCGGAGTTTCCTCCTTCTGGTGGGTTCGTGGTCTTGCTGGCTCAGGAGTGAAGCTGCAGACCTTCGCGGTGAG
TGTTACAGCTCTTAAGTCAGGGTGTCTGGAGTTGTTCGTTCCTCCCAGTGGGTTTGTGGTCTCGCTGGCTTCCGGAGTG
AAGCTGCAGACCTTTGCAGTGAGTGTTACAGCTCATAAAGACAGTGTGGACCCAAAGAGTGAGCAGCAGCAAGATTTAT
TGCAAAGAGTGAAAAAACAAAGCTTCTACAGTGTGGAAGGGGACCCCAGCAGGTTGCCACTGGTGGCTCAGGCAGCCTG
CTTTTATTCTCTTATCTGGCCCCACCCACATCCTGCTGATTGGTCCATTTTACAGAGAGCTGATTGGTCTGTTTTACAG
AGAGCTGATTGGTCTGTTTTGACAGTGTGCTGATTGGTGCATTTACAATCCTTGAGCTAGACACAAAAGTTCTCCATGT
CCACACTAGATTAGCTAGATACAGAGTGTCGATTGGTGTATTTACAAACCCTGAGCTAGACACAGAGTGCTGATTGGTG
CATTTACAAACCTTGGGCTAGATACAGAGTGCTGATTGGTGCATTCACAAACCCTGAGATAGACACAGGGTGCTGATTG
GTGTGTTTACAAACCTTGAGCTACATACAGAGTGCTGATTGGTGCATTTACAATCCCTTAGCTAGACATAAAGATTCTC
CAAGTCCCCACCAGACTCAGGAGCCCAGATGGCTTCACCCAGTGGGTCCCGCACCGGGCGGCAGGTGGAGATTCCTGCC
AGTCCCGCGCCCTACGCCTGCACTCCTCAGCCCTTTGGCAGTGGATGGGACTGGGCGCCCTGGAGCAGGGGGCAGCGCT
TGTCAGGGAGGCTCGGGCTGCACAGGAGCCCATGGTGGGGGTGTGGGAGACTCAGGCGTGGCCGCACTGCAGGTCCCG
AGCCCTGCCCCGTGGGGAGGCAACTAAGGCCTGGTGAGAAATTGAGTGCAGCAGCTGCTGGCCCAGGTGCTAAGCCCCT
CACTGCCCGGGGTGGCGGGGCCGGCCTGCCGCTCCCAGTGCGGGCCCACCAAGCCCACGCCCACCGGAACTCGCACTGG
CCTTCAAGTGCCTGCCGCGCAGCCCCGGTTCCCGCCTGCACCTCTCCCGCAAGCTGAGGGCGCCGG
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AGCCTGATCAGATGCAGAGGGTCTAGGAAATAGGTGCTGAAAGAAGGGAACCCATGCACATTAATGAGTACCATTGATT
GCTCCCTTTCAGTGGCACTTTAAAGGTTTGGACTTCCAGTTGTCTCACCCAGGTTGAGTGCAACCACTTAGGCATTCCT
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Fig. 6.46

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Fig. 6.47

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GCCGTGCGCCTGCAGTCCCAGCTACTCAGAGGCCGAGGCAGGAGAATCGCTTGAACCTGGGAGGCGAAGGTTGCAGTGA
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Fig. 6.48

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GGAAGATCTAGCACTGGGGAGTAAGTGTGGTGGACTGAGGGATGTCCCAGGTTCCCTTCGATAGCTAACTCTATGGTAC
AGTAACTCTCTTGAGAACTCAGACAACAAGGATTAGTCCTCTCAGCTGGGCTACTCCTGATGTTGATGGTGAAACACCAGCC
ACTCAGGCAGTGTCCATCAATGTCAACCCTAATCTGGAAATGAACTGACCAGGCCAAGGTAGAAGCCTGTTGGTCTGTC
CAACTAGTAACAGATCCGTAAAAGTGACAGCCACTTTTACCACCATCATTATAGCTCTGACCACTTTCCCTGACTTGAT
TTGGCCAATGTGTTGTGTGAGTGGTGGATGGAAGAAGCTAATACAGCTATGGCCTTCTTCAATAATGGTGAGGTACCAC
TATCATTTGCAAATCAGTTCAAAAATAGGAGGTCTTCCCAGCTGGGCACTAAGAGCTAATTCTCTTGGGCAATTTTTTTT

Fig. 6.99

TATTGCATTCAACCATAGANGATTAAAAAACAAAAAAGAATGGCATTTTCTCCTCCCAAAGCAAAACCTCTTGGATTCA
TGGTCTATCCTAATTATATCTTCTGGGGTAATCCTGAGAAATCTTGTCCATTCCAGTAGAGCCTGTGCTGTGAATCANC
TGTAAGAGTGCTCACCTAGTTTTGCTACAGTGCAAGAATTTCAAGGTCTAAACTCTATGAACAAATTGATTAGGGTAAG
TTATTGCCTATAATGTGATTAAATTATACTATAAGGAATTATTTTATCTGATGGTTTTCCAACATGAGAGCTCAGGCAG
AATAGCACAAAGGATGAGATTATAGATCTACTCATGATTTTCAAGTACATAATACACTGTTCTTAACTATAGTCAACAC
CTTGTGTAATAGATCCCTTGAACTTATTTCTCCTAGCTAACTGAAGTTTCCTATCCTTTGACCAATATCTCTCCCACTT
ACAACTCTCTGTCCCTAGCCCCCAGTAAACACCATTCTACTCTCTGCTTTTGTAGGTTTGACTTTTAAAATTTTCACAT
ATGAGTGAAACCATGTGGTATAGTGTTTGTTTTTCTGTGCTTGGCTTATTTCACTTAATATGATGTCCTCCAGATTCAG
TAATGTTGTTGCACATGACATGATTTCCTTCTTTTAAGGCTGAACAGGATTCCATTGTGTATATATACCATATTTTATT
TACCATTCATCCATTGATGGAAACTTAGGTTGATTCCATATCTTGGCTATTGTGAATAATGCTGCAATGAACATGGGAG
TGTAGCTATCTCTTCAAAATGATTTCATTTCCTTTAGAAATCTACCTAGTCATGGGATTCCTGGATCATATGGTAGTTC
TATTTTTAATTTTTTGAGAAACCTCCATATTGCTTCCCATAATGGCTGCACTAATTTACATTCCCATGAACAGTGTGCA
GATGTTCCCTTTTTTCCATATTCTTGCTAACACTTGCTAACTTTTGTCTTTTGATGATAGCTGTTTTAACAGATATGAG
GTGATAGCTCATTGCAGTTTTTAATTTGTAAGGGAAATGCACATTTAAAAATACTGTGAGTGCTAGTAGTAAATGTGGGA
TCCTAAAAATTTGCATTGGACCACGTGAAGAATTTCTTTTGTGAGGCCGGAAAATGGGCTAAGAGTCAGAATGACCTAG
TGTTCGTCTTTGTTTCCATACAATTCCCAACCTACCTTGAGGTCCACGTCTGAATTTGGCTGTTGAAGGCTTTAATTTT
CAAGGAAAGGAAAGGTCTGCCTGGGATAAGTCGGCCAGCAAGTCAGCAGAAGCAAGCCTAAGACTAAGGAAACACAGAT
CTACCTGTTGTCTAAGGCCAAGCTGGCATAGATACCTAACTCTGGGTCTTCTCTGTCTGGGGGCAAAATCTCCAGCCTT
GAATAGGAGTCAGACCTGTTATGGTGGCTTTCACCTGAAGTCCCATCTACTCACGAGGCTGAGGCAGGCTCCCTTGAGG
CAGGATCCCTTGAGCCCAGGAGTTTGAGGCTGCAGTGAACTATGATCACACTACTGCACTCTAGCCTCGACAACAGAGC
AAGACCCTGTCTCTAAAAAGAGAAAGAATAAAAAAAAGGAGTTAAAAGTTAATATAGAACCAGAGAGAGAGGGAACAG
GTCTTCTCAGATGGGGTAATCCCTGGTTTGACTTTCCTTCTAGCCCCATGAGAAGAAGACCCGTAAGAAAATAAGGGAA
GAAGCCAAAGAAATATGTGGCAGGGTCTTTCCCAGGTGGCAGCAGCCCAACCCAGTTCACCTTCCTGACTTCATAAAGG
AAGACACAGGAGGCTTTTCTTATTTTTACTCCTCTCATTAGACTCCACCATCTGCAAAATGTTGTCTAATAATAAACTC
TCAGGATCATCTATTTTAACATATCTGCTCCTTTGTGGGAAGAGTGAGTGTGAAAATTTGGGAACATGCGCAGTGGATA
AAGCTGTTATTTTATGCAAAACAGAAAAGAGCAGTGCCCCCTTTGGGTGGATGTAGCCCTGTACCAGTGCACACAGCTT
GGTATTCTCAAAGAAGCCCACAAAACAACCAAGGAGGCTGTTCCAGCTGGGCACTAGTAGCTGATTCTCTTGGTAACCG
TGGGCTGGGTTTTAGCTNTCACATGCCTGCTTGAGCGGAGTACCTTTGTGTGGTAAACAACCTGGACCACTCTACATGG
TCCCCTGGTGGTGGTAATGGGCAGGCTTAAGCGGTGTGATATTGGTTAGGGGGCTCAAACAACTCATGGAATGGGCACC
TAAGCAAGGTAGAGAGATGCAGAGCGGGGAGGGAGGGAGTTCTGAAGGGGAGTTTGGCTTGTTTGCTTTTTTTTTTTTC
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CGTAATCTTTGCTTTTGAGATGTTTTCAGTCTAACTCAGCAATTCCTTTCCCTCATCCTTTCTGCCTCACTACTTATTA
CATTTACTTCTAGTTCTTCCTCTTTAAATTGAAAAGCAGAGGCAAAACCAGACACTGTGATAATGGAATTTTATGTTG
TGGTCTTTGATTACACTTCCCTTCCAAAGCTTCAATATTTCACATTGTTAATAATAATGTTCTTTGTAGGAAAAAATCC
TTAATTTGAAAATGTTGCAGATGGCCTTTTATCAGGAGCTATGGACTGTCAAAATAAATAGATATAATTATGAACCATT
GTTGTTGAATGGGCCATCTTAAATAATAGCAGTCAAGTTTCCAGAAATTAAAAAAAAAAAACCTTACATTTTAAAAAGAC
CTCAGAATAATTAGTGGTCTCTGGTTGATTGGTTTTCAACAAGTTATTCAGCAGATGGAGGCTGTCAGATTTCTGCTGG
TACGATTATTTTTGTAACTCAGTGGTGGAGGGGGGTGGTTTATGCAACTCAGCATCACCTCTTTGTTGAATTGGATTTG
GTTTAAGAGAATCCCACCGCACCTGTACATTAAGATGGAGCATGAGGAAGGTCTTGGGACCGAGCCATTTGAAGAAAAT
CTAGGCTCNGGTGGGTCACTTTAGGAGTATTAGTATAGCCTTAGACATTAGCTCTTGGAACTACCCTGAAGGCGAAAAT
GTGAGACAGCTAATATTTCTCTGCAAGAATTCCTTGGGTTGCTGAGTTTTGGTTCTTGCCATCAAGAAAATGTTTGTAC
CGGAGCAAGATGTGGAAAACCCCAGATGAGAGGATATTAATGTAGATTCATGAGCTCTGCCAAAGTAATGTCATTACTG
CTGCTCCATCCCTGAAGAAAGATCTTAAACATATGTAAATAGACAAGACAAGTTATAAATTGTAATTTAGTATCTGGTA
ACTGAAAGTCTTTACTTCATTTGTACTGAGTGATTACCTGAATTTACTAAGGAAAATTTTGGAGGTCACAGATTTGAGT
TGAAGTCAATAAAATAGGATAAAAGTCTAGATGATGAAACTTAGCTTTTGTTGATTAGAGTTCTGTTTAGCTCTTAAAA
CTGCAGTAAATAAAATGTTATATTAGTGGAAAATACAAATGGATTCAGAAAATATAGACAAATCGATAGGCAATTGAAA
TGTATACATTTTATTTTCAACATATCAAACCTCGAGTTCAAAGTTCTTCATAAAAACACAATTCCTAAATTAACTTTAC
AATAACTGTGAGCATTCTTATCCCCATTTCAGTGCTACAAACCCAAGTTATGGGGAGAAAACTTTAAAAGGAGGCAAGA
GCTGCCACTATAATTTAAAATATATTGTTCTCCACTCTTTTTACATATTCTTGAAAGCAGTTCATTAACGGTGACCTTG
TGTAGGAAAAATTAGCATTTGTGCCAAAAAATTCTTTGTATGTGTTAGTTTGTGTGCATATTTTGGAGTCTTCATGTTA
AAAGTATAGGACAGACCTACTTGACAAAGGTGAATTTTGTCGAAATTTTGGGGAGAATATAGATTTGAATTCATGTAAA
TAAGATTGAATAAAAATCCAGATGACTGAAACATATTTCATCTTTTGCTAATTAGAGCTTTATTGAGCACTTAAGCTGC
AAAAAATAAGAGGTTATATTAGTAGAAAATACACATGGATTTAGAAAATTTAGGTAAATCTGTAGATAATTGGAATATA
ACTCAGGAAAACATTCAATGAAACCTCTTTTTCAACACATAGATTAGTACCCTAAGAGAGTTAAATTAGTGTTTTACTG
TGAAACTATTTTCTTCCACACCAGAATCTATTGTATGTTGGCAAAGAAAAATGGACTAGCCATTCATTATCACCAAGAG
TTTATTACTTACTCTGGCCACCTCAGTGTTCAGTGGGTACCTAAAGTGAAAAGAGTTTTAAGTGCTACCTTTGCAGTAT
TAAGTTTGAGTGAATCCAGGGATATTTGCTGTGAGTGTGGCAAAATGATTATTGTGGAATTGGTTGTTGAATTTGAATT
TTTGTTGCTGGCAAAATTCACATTGCCAAGTCCTCCTTTTAAATTGAAGAGTATTTTAAGTGAAATGCAATACAAACA
TATCTTATTCCTTGAACTTCTTGATTAAATTGGTAGTGTTTTTTATTTGTAGTAGGCTACTTATAGAGTTCTTTTTTCAT
AAAACTTGAAGGTTCTTCTTCATAAATCTTGCAGCTTCAAGGGGAAAAAAAGGAAAAAAGAAACTTATTTCCTCTTAGA

Fig. 6.50

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CCCTTACTGTCACACCTCAAGTATTGGACACAATGTGCGATGCTTAAAGACTCTCTTGGCTTAGAAAAGCCTTTCTCCT
CTCTTGGCAAATCAGGCAATGTGAAATCAGTAAGGGCCCAGTTCTCACTGTTTTCCTATGAAGTTGTTCCGATGTGTGA
CACATCCACCTTATGGAGGTTTAAGTTGGTTGTGTCTTGAGGCTCACAAAAGCAGGTTGTGGAATTGGTATAAGCATTT
GATTTATTTGAACATATCTGGTGGTGTGTCATTGACTGACCCCTCTGTTATAAGCTTTCCTTCAAAAAAAGTCCATCAG
AGACTTGAAGTTTCACAATCAAAGCTTTGTTTACTGGGCATATTTTTCAGCCTCAAGGAAATCTTCCCTGGCTCCCTGT
AGAAGCAATAGTTACACCTTCCTTAGGGGAAGAACCCGTTTAAATGTGTTGCACATCTTCACCTCTTTTACTTGAATAA
GAAGTTTACAATCTTCCCTGTGGTATCCTTCTTAGGGGAACTCTAGGAAGAAATGTTTGATCATGAGAGTGGTAACTGG
AAGCATGAACTGGAGTACGGTGTTCCCCATTTAAAGAAATTTTGCTTAAATTTTTTTTTAAATGGCTTTCCAGAGGTCA
GGCAAAGGCCAGTTTCCCCTTGATATTGGGAATTTCAGGGTGGGATTAACAAAAGGCTAGAAAATGAAGATGGAAAGGG
ATTTATAGCTACATAGCAGCAGCATGGACAATTTCCTAATGTGCATCTCTAATTAAATATTGGTGTATTAGCTTATTAA
TTACTTCAACAAATATTCATTGAGTATCTCTGCCAGGCAAGAATCTGGGCACCAGAGTTACAAAAGTGAATGAGGCACA
TTTTTCTTCCTGAGGGAGCCTAGAAGGAAATATACAATTAACTACAGTCATTGTTTCTCACACTACCAAATGAAAGAGG
TGAGGCTTACCTGTTTCTCAATGTCGTTTTTCTGAGGCAAATAAATGAAGAAACTTCAACTAGAAAAAACAAAAATCA
TATTCACAGTTGGATTGTCTGTACAATATTGTCATCAGTAAATCATGTAATGGTATTATAGGACTTGGACTGAGTGTGA
CATTGCCAATTTCAGTTTGTAATTTGTTCAAACTTGCAAGTGATAATGTGGTACTTTATTTTGAGGAGCAAAACAATAA
AAACCATCAGTACAAACTCAGGGTATCTTTGGTCCTAGAGATCTCTATTCACAATGATTCCTTACACTGTGTGAAGTAT
GAAAGTTCTATAAAAAGATTTCTCCACAATTCATTTTATAATAGTCCTGTCAGTAGGTTTTATTAACTCTACTTTTCTG
TTGAAAATATGGAGTCTCAGTAATTGTGATTGAGTTAGTCATCCCAGGTTATAAAACCAACAGTTTCAGAAGGGTCTTG
AATGAAATATCTTCTGCCTTTCAATCCAGGGAAGTTTGTACTATACCTCAACAAGGACTAAAGGTAAGGGCTAAACATG
GAACATCACAGCTATCAAATTGATGAGAGAGGCCTTATCACTTCTTAGGTTGCTCAAGGATGATGTGAGCAGAATAA
TGGCCCCCAAAGAGGTTTATGTTCTCATCTCTGGAATCTTTGAATACGTTATAGGACAAAGGAGAGTTAAGATTGTGGA
TGGAATTAAGATTACTAATCAGATGATCTTATAATAGGGAGATTATCCTGGATTATCCTGGTGGGCCCAATTCAATATT
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TTCTTTAAAAATGGAAAAAAGGGCCACAAGCCACAGAATGTGGATGATCTCTAGAGCTGGAAAAGGCGAGGAAAGAGAA
TTTCCCCTAGAGCATCCAGAAAGAAACTCAGCCCTATGAACCTCTTGGTTTTAGCCCACTGAGACTCATAGGACTTCTG
TCCTATGGAACTGTGGCATGATAAACTTTTGTTGTTTTATGCCACTAATGGTAATTTGTTAAAGTAGCAGTAGGAAACT
AATCTGCGGGGTGGCTGTTAGAGCCTGATTTATAGCTATCTACCTTCAGAGCAGACAGTGTGACTGGGAGCCCCCTGTG
ATCACCATGTGGGGATGTTATAGGTTAGATCAATCATTTATTCAATTATTTATTAATAAACATTTATTGCACATCTACT
TGGTACAAGTCACTGTTCTAGGCCAAACAGTAAACAAGACATAAAAAATCTTGCCTTCATGAAGCTATCATTGTAGAAG
GGGAAAGATAATAAATAAGTAAAATGCATCATATATTAGATAGCGATAAGTGATGAGGAAACTGTGAGGAGGTAACAGT
GATAGGAAGCAGTGTGTGTGTGTGAATATGCATGTGTATATGTGTGCATGTTTATATTAGGTTTGTAAATTTTAGATGG
GGCTTCTAGGGCAGGTTCACTGAGAAGGTGATATGTAAATAAAGACCCGAGGACTTCTTTTAGGAAGGAAGAAACAGCC
AGTGACTTTCTATCCCAAGCAAAGGAAATGCAAAGGCTCTGAGGGCAGAGGGTTCCTGGCACGGGAGGGATGGGAGATG
GTGAATAGGTGAGAATGTAGGTAAAACTTCCAAGGTGCCAGGTTGATTTTTTTAATAGTAGCTTATATTCCCCCTCAGG
CCAAGCCTTGGAGATTTTCTCCTCAGCTGGTGGTTCTTGTTTTTTTTTTTTTTTAAATTATCATTTCTACTGCAGAGA
AAAAGCAGACCATTTCCAAAGGGCAGCCTAAGGGAGCTGGAGGCAGAGAGTATCAGAGAGTGTTTCAGTGCTGATAACC
AATTTTATGGATCAGTCATTTTAATTAATAAGGAGAATGGGGGAAAGTGATGCAAACAATGTAAGTCCTGGTTGGCATT
TCCTTGAATGTTGAATACCTCTTACTTTTCAAAGGGTAAGGAATTTGGTTAGTGACTGGAAACAGGCAGAATTGGGGTT
GCGCTAAACTCAACCAGAGGTCACAGAGTACTGTTGGCAAAGGTTGGCCTCTTTTTCTTGCTGCACGTGGCTCGTATTT
AATATACTACTGCAGAATAACTTTGATCTCTCTGCCTTTAGCAGAAGTCACCACCACTATCCCCCTAAAGCTATTGGC
TAGCATTTCTTTAAACAAGCAGGCTGCACAGAGCTCCTCATGTGACTCCAGCAGGGGAGGAAGGGAGGAAGTTGCATGG
GTTGGACACCCAGAGCTAAGAAGTAGAGAGATGTAGGTAGAAGGGCCAGCCAATTGGCAGCAGTAGGCTGCAACAGCCA
CACACTTGCCCCGGGAAGTGGGAAATAGGAGGGATGCTAGAGCTTGGTTTCTAACATGGCAAAGATCTATGAGAGCGAG
AGAGAATAGTAATGGAGTAAACCAAAGGAAGAAATAAGATGCCTCCAGAGGGATATGGCAGCTTTAAAACATGGCCTCA
AAATCCTTTGACACTCCTTCCATCAAGAAATGGGGTCTATGTCTCTTCCCCTTGTATCCTCTTGTGACTGCTTGACCAA
TGGGATGGGGTAGAGGTGTCAGTTTCTGGTGCAGACCTTCAGAAATGGGTCGCTTCTACTTTGTGTATCCTGAGAGGCT
TGCTCCCAGAACCCAGCCAACATGTTGTGAAGAAGCCCATAGAAAGGCCCGTATGGAGAGGAAACTGCAGTCAGCCATG
TGTGAGAGTCATCTTTGAAGCAGATCCTTCAGCCTGTCAAGCAATTCCAGCCGACATTACATGGCACAGAGATGAGCTG
TGCCTTCTGAGCCTTCCCCAAATTGTAGATTTGTGAGAAAATGAAATCACTGTTGTTACTTTCAGCTACTAAGTTTTAA
GGTAGCTTGTTATATGTGAACGATTGTAACAGGGTGCATTTTAGGTGACTAGGAAAGAGAAATACCAGGTTTCATGCAA
TATTGAGGTTGCTTTGTTATTCAAGTATATAAAATATAAATCATATGATTAAAATTTTTAATCATTTAGAGTTTTTTT
ATTCTCTCCTTCGAAAAATGCACATATGCCAACCTTTTGAATACAGTTTCAAGAGTCTGAATACCTTCTACATCCATCC
ATGGGCATAGACTCCAAGCTGAGAACCTCTGTGGTCAGAATTTCTTCTCACTACTGTGTTATAAAGTGCAATTTGGTGT
AAGCTTAGGGAAGGAAGAGGGGAGAAGACACTGGACTTTCTATTGTTAGACTTGTATTTATTCCAATCCTTTCATAGAT
TTGCTCTTTGATTGGAGATAAAGTGTAAAACCTCTCTATCATATTCTATATCTATATGATATTCTATATCATAATTT
CTTGGATGGCAAAATGTGGATTAAAAATTCTGTCCTTTCTTTCCTCAAAGGAATGTTGAAATTAAAAAAAAAGAAAAAAGA
AGTGAATATGCTTAGAAAAGCCATAACTTGCCCATAAGAGGTACACAATGAATATTTGTTGAATTTTTAGCTGTCGTTA
TTGATAATGGATTACTTAATTAGGTCGCTGTGGTGTTATGATATAGATACTTGTTTTCATCCATGGTTCCTGGCTTCTA
GCTCCCATAATCCTTGTTATAATGTTGGGGCACTTTAGGCCTCAGGAAACGGAATCTTTCCCTCTAACCTTCTCCTGTC
CTCCTTTCACTTGCCCAAGGCAGGACTCTAATCTGATTGTCGGTCAAAATACCCTCATTCCAGATCCTGTCCTATGCAG
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Fig. 6.51

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GCACATGGATGAAGCTGGAAGCCATCATCCTCAGCAAACTAACACAGAAACAGAAAACCAAGCACCGCATGTTCTCACT
CACAAGTGGGAGTTGAACACTGAGAACACATGGACACAGAGAGGGGAACAATATACACCAGTGAGGGGAGGGAACTTAG
AGGATGGGTCAATAGGTGCAGCAAACCACCATGGCACATGTATACCTGTGTAACAAACCTGCACGTTCTGCATATTTAT
CCCATTTTTTTTTTAGAAAAAATAAAGAAAAAACCCCAAAAAACCAAAATACCCTCATTCCAGAAAGAGTCCTGCTCTA
TACCTAAGAGGAATGAATGCTACACAGAGAGGCCAAGAAAAGTCTGAGTAGATAGGCATTGATGGGTTTAGATCATGCA
CTTTTTGTCCAATCACATTTCTACAGGGTTGTCAATCATGTTTATGTAATGAAGCCTCCATAACAACCCAAGAGGATTG
GGTTTGGGGAGCTTCCAGATAGCTGAACACGTGAAGGTTCTTGGAGGGTGGTGCATCTACGGAGGACGCAGAAGCTCAT
GCATCTTCCCTCATACCTCACCCTACACATCTGTATCCTTTGTAATATACTTTATAATAAACTGGTAAGGGTAAAAGTG
TTCCCCTGAGTTCTGTGAGCTGCTTCCAATTCCAGTTAATCAAACCCAAAGAAGGGGTCATGGAAACCCCAACTTGAAG
TTGGTTGGTCAAAAGACACCAGACTTCTGACTGGTGTCTACAGGTGGAAGCATCTTTGGGACTGAGCCCTCAACCTATG
GGGGGCAAAACTCCACACTTCGGGTAACAGAAGGCTTCTTCTGTGTTGATGACTGTTGTTGTGGTGGCGTGAGAGTAGA
CCTAGAACAAGGTCCCCAGGGAAAAAGCACCAAAGGGTATAGGAGTGGAAAGAGGGGGTCAGTACAGGCATCTCTGCCC
CTGTCACCCATGTTACATTTTACCCTCTGTTATCCTTCATTTTATAGTCAGTGTAGGGGAACTAGGAGAAATGGTAACA
CGCAAAGATTGGTATCAGTTTACACCAAAACAGAACACACTGCTGGTGAGCACAGGGAGTTGGAAACAATATACACAAA
AGTCTCACAAAATAGAAAAGAACATGGATACTGGCTCTAACATTGACGTCATTGGGATACAAAGTCTATTTACATTGTT
TCTTATGAGGTCAGCAAAACATTTCAAATAGCAACTCCTTGGCTGCCTGCAGTGGGTCTGCAAATGTGAAATAAAACAT
GAACTGCAGACCTGACTTATGAGCAGGACGTTCCAAGTTTCCTTCTTTGCTTTTTTCTGTAACAGATCACCTTGTCCTTG
TTACTGCATTGGTAGATTTTTATCATCTCAGATGAAAGAATCCTAGTGTTGGCCAGGGCAAATCCAAAACACAGGTGAT
GAGAGGCAACACCCAATGTTAAAACCTGATCCACTGTGGTTATTTTTCTTTCCCATTGGGAAACTATAAGGATGCAAAT
GGGCAGGAGAGTAAAAGCAGCAATCACGTCTGCATGGACTGAAGGCAATTTAGTTTCTATCAGACATGGTGACAGTGAT
CAATGCATCACAAAATCACAAACAACAGATGCCAAGCACAAACTGTGTCACAGATCCCAGATCAAAGATATCTACCATA
TGTTTAGCTTTCACATCAATGTACATCAAGTCAGTTTTGAACTAGAAGCCTTTAGATATACAGTTCATTACTTCTTTCT
CCTTTTTCATCCTCTTTTGTCTCCAGGAAGTTCCCAGAATCCGAATTTAATCATTATTCAGGTTTGGGTATATTTGCAT
ATAAATGCATTGCTTGTGATGGATCCAGTGAAAGTTCATGCGCAGGGCTGCCCCTGCCCAATGCTGCACTGGCTTTCTG
CCCCATCAGTGCTGGAGCTGGCAGAACCCCCCTGCAGAGGAACGGAAGCAAGTGACCTAGAGGGGCCTGCAAAGAGTCT
TAGGAGGGCAATTACAACACGTGTTTCTTCCTTTTAGGAGTATCTAATTGGGTTCAATGTGAAGGCAGCTCACTGTCAG
GCACATAGAAGAGACTCTGAGTTAGAGAGGTTGAAATGTGGTCACAAAATATCCATGAATGTATTAAATCCATAAGGAT
TTATTAGGGGCTCTTAAGCATTTGATTCCCTTTAAGGAAATCACTGCTAATAAAGAGGCACACAGCTTGAGAAGCTGAA
GCAGAGTGAAAAAAATTGATTTATAGCTCATAGGTAGAGAAAGCAAAATTCCTAATTAGTCATTTTTTTTTAAAGCACG
TACTAAAGGGAAAATTACTATATATTTTTTTTCCAAAGTTTCCTTGGTCTGGCTGTTGTTTGCCATTTTAATTACAGATT
GCTGGGGAAACAGAGACAAATTATGCAGAGTCCTTTCTTGTTGGGAATTCACACTCTGGCAGCCTGGTGTAGCCATGTG
CACAAACAACTACTGTGCAATTTGATGAGAGAGACAGAAGGCAGGGCAGTGGCACAGGTGGAAGTGCCCAGCTAGGGTA
CAAGGAATTGAGGGAAGGCTCTTGAGAGAGAAAGAGATCTGAGAGCTGTATCTTCCTAAAAAGTTGGTGTATTCCAGGT
AGATGAAAATAGGATTGGGAGACAGAGGTGGACATTCTGAGAAGGGGGAGTAGTAAGTACAAAACAGAGGTGGCAATAG
CATTATGGACTTGGGGACCGTTAGTAGGTTGATAGGATTATAGCACATAAATATTAGACCAGAAAGACTGAGAAATGAT
GGAAGGTTTCTGTGGCAAGTGTTGCCAGTGCCCCTCTCATATTCCCTTGGCAGTCACTGTTACTGTACAAGACAACAGC
TACAAGTCTCAGAGACTACAAGTTTGCAAGACTGTAATGAGGCAGGCCCAAAGCACCAGAAGTTAACATCCTTGAGAGC
ATCGCTCAGACAATGATGCATGAATAGCTCAGATTCTTCACCCCTGGTGAGGATGAGTCTGCAGCAGGTTTTGTATAAT
ATCTTGGAGGTTCCCGGTGACATTGAGTCTCACCTGATCACAGCAGTTGTCTGGTCATTTACACACCAGTATTGTTCCT
TCCCATACTTGCCATTCTTCCATACCCTCCTACATTTTGCTTCCTGGAATCCCTTCTCGAAAAACTACTCATGCTTAAA
TTCTTAGCTCAGGCTCTACTTCTGGTGAATCCAATCTGGGACAGGTTTTTGGCTTGTGGAGGAACAGTGGCAATGAAG
GCGGAGTCTGGATGATTTTCATGAGAATGCAAGAGAGAGTGGAAGACTCTGGTTCAATTTAGAAAGCACAGTTCGTTGC
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TGCTGAATTTGAGGTATTTCCATGGACAGTGTAGGCATTGGGGAAGAGGACTAGTTGCGACACCCCAGTTTGGAAGCTG
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AAGAACCCAACAGAAACAAACTTCTGGGAGTACCAACCTTTAACAATCAAATAGATGAGGAGGAACTTGCTACAGTGAA
GAGGAAGCAAACAGAGTCAAAGACTGCAGAGAGGCTTGGCAAGGTCAGACTTCAGGCTCCCATTGGATTTGGAAGTTGA
GTGGTCATTGTTTATTTAAGAAGTTCATACTAATTTGGATCAATTAGAAAAGTAGTAGAGATTACCTCCACTTAAGACA
TTTAGTTTTATTACTTGAAAACTAGGCTAACCAATAATTGCCTAGGACAGGGATTGCTTTAATGAATAGGTAAGAATAA
TTTCTAATTATAGGGTGGCATGATTTGCGTTACCATACTGAAAAATGCTGCCCCTCTATTTGTATGATTTGTATGAAGT
TCAGTACTTGGAAAGCTTCAAGTTTGTTCACCTAATTAGGTAAGGGTTTTTCTTTTAAGCTAGTTGCTGTTTTTTAGTT
TCAAGTTGGTCCCTATTTCTGTTTGAATTATCACAGGTTTCAATTTTATGTTGCCAAAAGATAAGATTTAATACCATAG
CTGATGCCCCTTTGAATTTTGAATAACAATTCTATTTTCTTTATACTATTTAGTTATTTGTGGTTAAGAATCTGGTCTG
TAGAGTTAGACTGCTTAGCTATTACAGTAGCTTCAACACTTACTCTTTAAGATCCCTGGGTAGGTACTGTGCTTCTCTG
```

Fig. 6. 52

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TGCCTTGATTTCCTCATCTGTAAAATGGAGAGAATACAACTTTTTTTCAGAAGTTAATTCTTAGTACCAAATGAGCTAA
TTCATATAATGTATTTAAAGGCATTTTAAATGGCACAGAGTAAATGATCAGCACATTTTAGCGTTAGAAATATTTGTTA
GTATTTTTTCTATTTATAATTTGTTACTATTACTAAAAACTGGGAGGCAGAATAGTATAAAGTGATAATGATTGAACTA
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ACATTCTTCACCTATAAAGAGGGAGGTTAGAATAGAACATCTTTCAAGCCAGCCTTAGTTTTAATATTCTGGGAAGCA
CACCTTTTGCTTGGAAGTAGCTGATTTACACAGTAGTCTTAGCTGTAGTGTGTTTTCCCCTAAGGGAAAGATAAATGGG
CTAAAAGGAGAAATGGAAGGCATTTCCATTAGGCAATTGCTTTCTGGAAAGTACAACTAATGTTTTGGTTGGTTTATTT
TCATAGAATTCATTTCTTGGGCTAAAACATAAATCAGTTACTATATTCAGAGGGCTTATCATTTCTTTTTTGAGTATAC
TTATGGTTGGAAAAATTCCAAGTGTTTTTTCATTTTTTTGCCCTGTTTTTTCATACCTTTTACAGAAAAATAATTGTTTT
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ACACATGTAAATAAAATGATAATTATAGAATGTGGTGTTTTCTTGTATCTTACATTTTTTAGATCTGAAAATTGGTCCC
TGTTCTTATTCTGCATGTACTCCAGTGAAACTTTCCCTTGATGAGTTATTTTTCATGCGCACACATGGGGGAGCTTTTG
AGACACTAGTTTGAATGTTACACTTTGAAGACTTTCTCAACAACTTGACCCTAAGATGATGGACTGGAACTCTTCATTG
AAGGAAGTGTAGCAGGGTGCAACTGGCTGTAGAACTGACTTCCCTAGCGCTCACTGTCTCATATGCAGCCCTAGAACCA
ATTCATAAATCTCTTTGAAAGATAGCCATAAACATGTATTCTCTCACACAAAGAGTAGGGCTAAGAAAATGAAAACGA
AAAGTGAAGGCAGATCCAGTATTTTCTAAAACTTCAGTAAGAAGTACCTGAGGTCATAAACTTGGGGGGCTGCCTCTTC
CGGTGAAATGGGGGAAGTCAGCCAGAAACTCTGATTTTGACAGCAACATTATTTAAAGGAGTTTCTGAAATGATCAAAC
ATGTTCTTCCATAGAAGAATAAAAGTCTAAAAGCACATGAGAATATTTTTAAAAAATCACCTCTGGAGGAAGCAGAAAC
AAAAGTGAGTGGCTTGAGTTGAGTCCGATGCTCTTGGTGTCTAGCTCTGTTTGCCATTTAAAGAAAATGCAGAAAAATA
GAAATGTGTTAAGTGAAATGAAACCCCATAGGACCTTGACTGACTTTATTGTTATCTTTCTTTTGACCCTAATTTTTGG
GGTAGCTAAAACCGCAAATAAACATATAGAAATAGACCTGGTGTTAGCCACATAGATACATGAAGTAGCATCAGGAATG
ACTGGGGCTTTTCTCTGCCCCAGTTTATTTGGAAATAACTCCAAACTATTTCATATATAAATATATATATATTTCAATG
CTTATCATAATTACATCTGAATATTTTGCTCATAAGACAAACTTCTAAATGCCCTTAAAATGAGGCTTCAATGAGGAAA
TAAATACAGCTGATTTTAAAATGTTATTTAGTATCAAGAAAAAACTCTTTAGCAAATATTTCCTGTGAAAAGTATACAG
TATAACTAGCTTAATATATAAAATTAAACAGAATCTTTCATGATGAATTGAAAATAGGTAAAATTTGTTTTCCTTCTCA
TTGTTTTTTCATATGTAGACAGCCAAGTTTCATCCTTCACAGTTTGTGTTCAACTCCTTGCTGTTTTTTTTCTCTAATCT
TTTCCTCAGTGCCTTATTCATTCTCATGGTTTTAACCATTAACTATATTCCCATTCTGGGCTTTCATCACAGATTCCAG
TTGTACATTTTCTATTGCCCATTGGATGTTCCTACCTGGATATGGAAGTCAAATTGAATGTCAGCTACCAAATTTACCT
TCCATCCTCCACTTGCTTCCTCGGCTTCTTTCTTTACCCACCCTCCCAGCTCACCAGTTCCTTCTGACTTTCCCGTATC
TGTTCACTAAACTACCATTTTCTGAATCACCTGGCCTTGGAAATTTGGTGTCATCTTTGACATTAACCTGTCTCATGTA
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Fig. 6.53

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Fig. 6.55

CAATCTCATTAAACACAAGGTTTTTGTTGGTTTTTCTAAAGGCAAGGTAAGGAAGTCCCTATGACATGGACCATGGTGC
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<p style="text-align:center">Fig. 6.|56|</p>

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TTAATACAAATAACTTAATATTTTACAATAGAGTTGATTATTTTTCTAATGCTTTCCTAAAGAAATTCTGTAAAGATCC
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TTGACAATGATCTTCTGATAGATCCTGGCTTGGGTAATACATTACACTGGCAGAAGAATTCAGAAAATAGCTCAAC
AGGATCCCTCAGTTTGGCTGGTCTTTCTGAAAAGACAAGTGTGAGCAGCCTGAGGAGAACCTGGAACTCAGGTATTCTC
TGTTTCAAACTCAGGAAGGCCTGGGTGAATTCCTGGTAGAGCTGGTAGAACTAGCTTTCTATTATGAATATTGAGAAGT
TTGACCAATTTTATCAGGCTTCTGGAGTGATATTTGCATAGTTACAACTTAATATCACTTTTCTACTTAACACTCACCA
GTAACTTCCACCTACTTGGGCCAGCCCATGTAGTTCAAGGTAAAGATCTTGGATTTTATTCCACATAAGGTAAAGATCT
TGAGCTACAAGATCTTGAACTACTGAAGCTCTTGAATTACACGGGCTGGCCTCTGCCTTTCTCTCCAACATCATCTCCA
GTGACACTGGCCTTCTTTCTCTTCTTCAAATAGACTAAGCTCTTTCTCACTTCAAGCTCTTTGTTGAACCTGCTAGTCC
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Fig. 6.57

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TATAATATATATATAATATACAAAATACGTGTTAATTGGCTGTTTATAGTATTGCTCAACAGTAGCCTATTAGTAGTTA
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Fig. 6.58

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TCAATCTGAATTCCAAGGAGTGAAGGTACTAATGGTTTGATATCCAGGTGTACATGGCCCTCTGCCAGGAGACTGTAGG
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TAGCAGGTGTAAGCTGGAATTCTTTGGCACACAGCCTCTGAACCTTGGCTCATGTTCTCAGATAAATGCCTATAGCAGC
TGAAGCTCTTGAAAAAAATTTAAGAGGAGGAAACAGAGTAGGGATCTTTTTGGGGTCACAGTCTAGGTGTTTTTAGAGC
CACTCAAACTCGAATCAAGACCCTTTGATTACCATAAAAAAATCTAAAATAAGATGTTTTGTTTGGCCCAAACAGTTTTA
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Fig. 6.57

GAAAAAAGTGAGCCAAATCTGAAAATTAGTTTATTTCATATATATTGAATAGTTAGGCCATTTGGCCACACCTGTCCTG
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ACTTTTTCCCATCATGGCAGGTGAACTTCTCAGTGTGCAAGGAATTATATGTAGCTGACTCTTCCAGGGTATGAGAGGT
GGGCTGAAGCTATCGGGATAGCAGCTGGCTTCAGTAGTGCTTTTAGCTGTCTAGACTTGTGCTTTCTCATTGATTTGG
TGTCTGGGCATGTCCTTTACTTTCTAAATCATGTCTGCATTTAAATATTTTAGAATATTTTATCCAGCATTTTTTGTTG
TTTTTCCCCAAAACTAGTATTTTCAATATTTCTGTGAGAGAACAGGGAGTCCTTTCTAGTATATTGCTGGAAATAAAAT
ATGCAACCTATTCTCTACACAACAGTCAGGGTGATCTTTTAAAGTATACTTTAGATCATGTCAGTCCCCTACTTAAGAC
CTTCCACAGCTTTTCATTGCTCTTAGATTAAAAGCAAACCCTTTATGTTTTCTACAAATGTCTGCATGATCTGGCTCC
TAAGAATCTTCTTTCTTACCCACTCTTTCTCCTGCTCCTTAACTTCCAGCCACACTGGCCCTCTCTGTTTTTTGAACTA
ATGGAGCTCATTCCTGCTTGGGGCCTTTGCACTTGACATTCTTTCTGCCCATGTCCTGGACACACTGGCTCTTATGCAT
CATTCAGTTCACAGCTTAAGTGTCCTCCTCAGAAGGACCTACCCTGTCCACCCTACTGAAAATAGCAAATTTGCTATCA
CCCAATCATTCTAACCCATCACCCTGTTTAATTGTCTGCCTTAAATTGTTTTGTTTGTCTATTTGTTCACATGTTTACA
ATTCAGAATATAAGCTCTGTAGGAGCAGGAAACTCTTCTCTCTAGTTCATCACTTCAAGCCCATTACTAAGAACAATGC
ATTGTTTGTGGAATGAATTAATGATTTAAATAATTAGCCTATATAGTGTCATTTCCAAAGTTGGCAGAATATCATCATT
GGAATTTTGTTCTTAAGGGGAACTGGGTTATAGAAATGTGGGAAGAATACTTAATTAGCATTGAAAAACAATGCTTTAC
TAAGGAATCAAAATCATGAAATGTAAGAGCAAATAGGAGTGTTTATCCCCTTTATTCCAGACTCTATTTTATAGATATA
AAAACCGAGACTCTGGGTTGCTGTGAGTGGCTCAGACCCCACAATTAGTGGCAGAGCTGAGGCCAGGGGATGCACATTC
TGATTCCTGCATCATGGCTGTTGCTTAATATCTCACCATGAGTCATGGCTACTGCCCAGTAGATTGGGCACAACCATGA
ATATTAGACTGGCAATTTGCTAGAGATTTTGCAAAACCATGGGAAATGGATTGAACAAATTTTCCTGTCATTTTTGTAA
GAGGCAGTAAATAATGGTAATTTGAGTATTAGAGAACAGCATCTGAATACTTTTTCTAAAATTCTACAAGGTGAACATA
GAAAATTGTAGCTTTCCTTTCTGCCTATTGCTTTCTGAATGTCAACAGATTGCTTTCTTCAGCTTATGTTAGAATGTCA
CCAGCAGGACCCACATCTGACATGCTCTGGACTGTCAGAGCCACTCAGCACTAGGAGAACTTTCCAGTTGAATTTCTCT
TAAGAAGGTCAGTAGGAATAAGATAAACGAAAAACTTATTCATCATTACCATAATCCTTGTGAAAGTGGAAAAGTTCAT
CCTGGCAAATTCAAAATCGATTACAAACTCATGCATGTTGCATATGTATTTTTAAAGATTTTTACAAACCCAAATAAAA
TAAGTAGAAGAAAACAGTAGTGATAAATTTAAAGTTCTTAACTGAATGAGTAGCTTTGAATTTTACTCAACGGATATAA

Fig. 6(60)

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GCTTTGGTTTTTTTTATAAAAAAGAAACAGGTTTGTTAAGAGACTATGAACATATTTTAGAAATGCTTCAGTGATTTT
ATCATTTAAATAGAAATTTGGATTATTCTGGAAAACAGTTTGATAATATGTTTCAGGCATTTGAACATATTTACTCTCC
TGGCCCAGTAATTGCAGTTTTAGAAATTTATCCTATTTTAGGAATCTAGCCTAGAGAAAAATCTGAAATTCAGTCATCT
TGGCATAAGGATGGTTGCAGAAATACTATTAATAATAAAAAGTTGAATAGTACCTAATATTCAAGTAGAGGTATAAATA
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TATTATTATACTTTACGTTCTAGGGTACATGTGCACAACATGCAGGTTTGTTACATATGTATACATGTGCCATGTTGGT
GTGCTGCACCCATTAACTCGTCATTTACATTAGGTATATCTCCTAATGTTTTCCCTCTCCCCCTTCCCCCACCCCACGA
CAGGCCCCAGTGTGTGATGTTCCCCTTCCTGTGTCCAAGTGTTCTCATTGTTCAATTCCCACCTATGAGTGAGAATATG
TGGTGTTTGGTTTTTTGTTCTTGCGATAGTTTGCTGAGAATGATGGTTTCCAGCTTCATCCATGTCCCTAGAAAGGACA
TGAACTCACCCTTTTTTATAATATAATGTTAATTTTTTAGAGAGTAAGACCTAAAACTATATATACGTGTATGTAATAC
GTATATAGTATAATCTCAACTACATAAAAAAAGACAAAAAATTAAAAGATTGCAAAAAAAGTCAAAGTATTAATAAATA
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GAAGGTCATGATATATTCACTTTGTTACAGGAAATTTAAGGTGCCCAGAAAAAAAAAATCAAGAACCAAAACTAACGAA
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TATCCTAGTCCCTTTAGAGTTGAGCTTAGCTTTGTCCTGCAAAACTGAAAGAATACATATTTAATTTTTTTGGTATTTT
CTGTAGCATGGCATTAAAATTAATAAATTTAAAGGAATAGAAGCTTGACAAGATGCCTTAATAGGCCCACCAGGAATAA
TCACATAGTTGCCTATTTTGAAGCATAGACATAAAATTAAAAAATTCCATCCAGATAAGTCACGAGGCTTTGCCAAAGT
GCCCTCTTAAATTGCTCCCCTTTTGAGAATGCACTATTTATTGTAGCATTTTGCTGAGCCCTTGGGAATTTCTCTTCTG
AGAGACTTTTACCAGTATGAAAAATAGCAGCTTTTCTAAGTTTTGGAATATTGTCAGTCTTTTTTTTTTTCATTGGTTTT
CCGATTATCCTATTCTCAGAAATAACATTTATTGATCTCAAGGAGTTAAACATTGTCTTGTTTTCTCTGGTTCTGTATT
CTTCACCTTTAAGACCAGATCCCAACTAAGTAATAATAAAAGATAATAATGGCTAAGAGTTTTTGAGCTTTCCTCCACG
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GAGCTCGCACCTTCCACTACTATTAATACATGGTAATGTTGACATCTTATTGTAAATGTTAAACAATAAAGCGTAAAGG
TGAGAAAACCAATCTCTAGAAAAAAGAAATGAGCCTTTTGATTATAAAGCAGACTGCCTAACAAGTATCAAGTCATCTC
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TTGGCCTTGGATGGTGCCCTTTTAAAGGCAGGGTAATAGCAACACAGTGTTTTTGCTTGGGAAACGCTCTGTGTATGGG
CTTCTTCTCTTGGTTTTAAGTATTAACAAGGTAGTAAGTATGAAAGGTGCTGTGTTTGGAGTCTTTAAATGGACTTGGC
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TAGCTCTTCCTTACCCCTCCAGCTCCACTTCTGGGTTAGCATGAACTGACCACTGTAACCTGCTCTCAGGCTCTACACA
AAGGTGCTTCAGAATCTGCCTGTGGCCACTTCTGTGAAAGGGCATGGTCACAGTCACCGTGGCATGGATAGAAAACTGG
AGAGCAGCAGGAGGAGCCCAGGGATAGAGAGAGGAGGCCTGGATGCCTGCCTGGGCTCTGTGCCATGCCTTGGGTAGGC
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Fig. 6.61

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CACTTGACTACTTTAAACCAAGTTGACTCTCCTGTAATGCAATAGGGGTTTAATGATCTCTGTGGCTCTAGAGTTTTGT
AGTTTCTACTGTTCTTTGAAGCATGAACATTAATTCAACAGAAGAAAAAAAAACCAAACATTTTTCATTCAGAACAGTT
TCAAGATATTGCTCTGACTCACTGGATGGCAAATCATAGTGAAAGGGAAGTCTGACTCGACTTCCATTTTGCATTACTT
TTGGCCAGCATGGCTCTTTATGGTGTACTTGTTGTATAATAAAACAGCTNTCTAGAGAATACTCTTACATTTACTTACT
GAGAGATAACAGAAGTTCCGAATAAAAACTCATAGAAATGGAAGACTNGGAAATTATTTTTTTCTTTTTTTCTATTACAT
ACAGAGGAACAAAGGCTGATATTTGTGTTTATGCCCCTTTCTGAGGACAATGTCCTTGAAAATCCATATTATTATTATT
TGTCTTTATATGTAATTGGATTGTTTAAACTCTTCTCTGAACTTTGTAGCTTTTTCATTATATCTCTTTTGCTGGAATA
TTAATAAAACTCCACTTAAATAGCCACTTTATTCTGTAAATTTTTATTTAAGGCCTGAACTTGGCCGCAAATGAGAGTAC
TTGTGGTTTTTTTTTTTTTTTTTAAATGATGTGACTGCTTTGTGAAGGGACATAATGAGTCTGTGTTCTCTTCTATT
CCTCTTCAACAACTTTGTCAGGAAAGAAGGCTATTATGATTTCTTGGAGATGTGGGAGGATTGTGGCATCACCATGTCC
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TAATTCACAGATTTTGCTTTTCTGTAGCTTATGCAATGTCTGAAAAGGCGCTGTAAGCAGGGATTCCCTGAACATNGCG
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CGCTCCAAAGCCACATGCACATTGACATAATCTCCGGTGGTTTTGGCTGGTTTATAATCTGGCTTATTGAGGTTTGGTT
CAAGGCAGAGGCCTTTAGGGCAGGGATCTTCTGTGAGCTGAAATAAAAGGGTCTGGTTTGGAGGAGATTTGACTCTGCC
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CNAAAATATTGAGTGGAACATTTAAGAGATACACAATTCGTAAGTTTTAATTTGCATTCTGTTCTGAGTAGTGTGATGA
AATTTCATGCCATCCTGCCTGGGGTGTGTAGCATCCCTTTGTCCAGCATGTCCATGCTGTCCATGTGACTCGCCTGGAG
GTCCCTTAGTAGCCGTCTCATTAGCAGATCCACCTTCGAGGTATGGAAGTGCTTGTGTTCAAGGAACTCTTAGTTTACT
TAATAATGGCCCAAAGTGCAGGAGTGGGGATGCTGGCAATTTGAATATCCCTAAAGTGCTTCCTTTAAGCTAAAAGGTG
AAAGTTTGAACCTAATAAGGAAAAAAACAAAAATTATATGCTGAGGTTGCCAAGGTTTATGCTAAAAATGAATCTTCTA
TCCATGAAGATGTGAAGAGGGAAAAAGAAATTCATGCCAGTTTTGCTGTTGCACCTTGATCTGCAAAGGTTATGGCCAC
AGTGTGCAATAAGTGCTTAGCTAAGATAAAAAAGGCATTGAATTTGTGGGCGGAAGACATAAACAGAAATGTGTTCTGA
TTGACCGCAATTAGGTTTGGTACTATCAGTGCAGTTTCAGGCCTACACTGGGGGTCCTGGAACATATGCCCTGCAGATA
ATGGGGGACTGTCGTATAGAGCCCCTGGATACTAATGGTGCTAGGGATTCAGGCCCCTCTCCTATTTTGGGGAAGGGGCA
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ATTCAAATTGCCAGCATCCCCACTCCTGCACTTTGGGCCATTATTAAGTAAACTAAGAGTTCCTTGAACACAAGCACTT
CCATACCTCGAAGGTGGATCTGCCAAAGAGACGGCTACTAAGGGACCTCCGGGCGAGTCACATGGACATGTCGTCGTGTA
TGGAACCTTGGAAAGAGGCTGTCCTTACCTCCCTGTGCATTCTGGCAGCCCCTGGCACTGCTCATAGATAGCCATGTGA
CTCAGGCTGGGACTCTGACTCTAGAGCGAATGGGTTAAAGGTCAAGAGGCTGTTAGAACTTATTGTTGGTGTCAGTGGT
GGCGCCCATTGGCTTTCAGTGGCGGCGGCAGCAGCAGTGTCCTGGCTGTAATTCTTGCTACAGGATAGTGGTCGTGATT
CTTGCTCCTTGGCATCTTGCGCGCCTGGGTTTTTGCTCATTTTCTGTCCTTAGTGATGAAGACTTCTACTGAGTCTGAA
CCTGCATGTCCTTCCAATGGAGTCTACTTTTTTCTCCTCCAGCTAGCCAAGGCCGGTTTCTGTTATGGCAAGCAAGAAT
TCCCACAGCACCTGAGTGTCAACGCTTTCATCGTTTGTGCTGACCCACCTGTGCAGCTGATCGTCTGCCTTTTTTCTC
CGGCTACTCACCTTCCTTTATCTACCTATATAACTCCCTGCTTTGAAGGCTGAACTCCAGCATTTTTAACTTTTCCTGA
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CTTCTTATAGCCAGTGTCTCCCCACATCTTCAGCTCCTGGAAACAACTGATCTATGAATTGATATGTGTGTNTGTGTGT
GTGTGTGTGTATATATATATATATATATATATATATTTGTTTGTTTGTTTTTTGAGACAAAGTC
TCTCTCTGTTGCCCAGGCTTGAGTGCAGCAGCACAATATATATATATATATAGTTTGTTTGTTTGTTTTTTGAGACAAAGTC
TCCTGCCTCAGCCTCCCAAGTAGCTACGATTATAGGTGCCTGCCACCATGCCCAGCTAAATTTTTTTTTTTTTTTTTTG
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GCATCCCAAAGTGCTGAGATTACAAGCATAAGCCACCACATCCAGCCTATCAATTTATATTTTAAGCAGTTATCATAGT
TCTACAACTTTCCAGAATAATGTTTTATACACCAGGAAGATAAAATAATTGGATAGTGGATTTTTGTCTAGGAATAGAG
TTGCTGAAATTAGGAAATTAAAATAACATGTATTTATACTAAAAATAATTGGATAGTGGATTTTTGTCTAGGAATAGAG
GGCATCCTGTATTTTATCTGGCAACCCAACCCAACCCCACTGGATGGGTATTGCCAGTGTGGGAACTGTTAGAATTGAG
GGTAAGTGTGAAATTGGCAGACAGAGAAGGAAACTGCAAGAAGAGANCATGGATCCTATCAACAGAATCATTCAGCCAT
TCAGACACTTTGTGACAACCTAAAAAGAGAGGAGGGAGTGAGATTTTTGTATGAAGTAAGAATTCACTTGTTTGTACAT
GAACAGCATATGCTAGCCTGCTTTGAAGACTGAAGTTCTTGGCTTTCCAGTTTATAAACCAGTTCTATCTGGGCAGCTT
```

Fig. 6.62

GCAGCCAAATTGTGTTGTGGAGGAATGGGACTCAGGAAGCACGGGCACCCTGAAATAGGTGGATGTGGTCTGTGGAAAA
GGTGGAAGCACACACTAGGGTTCTACCCTTAAGAAAATGAACCTTTGCTGAGTTATCAAAGTGAGTACTTGCTATTTCT
CAGGATAGCCATGCCACAAACACATATTTACAGTAAAAATTCAAGTTGGTAACAATTAAAATGACTGACCTCTAGTTTAT
CTATATATTATTGGAACAAAAGGGCTTACTGAGCAATGCCAAGGAAAGAAACTTCCAAGTGGGTTCTTCTTACTCTACA
GCAAGCTTGGCAGGACAGTTACTTGGAAATAAGTTGTCAGTGTTTGGTCGGAGTGGTAGCAGTTGTGTCTGGAATTCTT
CATTCTTTTCCTCGCTCTCCAATAACCTACCCTGTGAGGCTGTCTCCAACCCCAGAGCCCTGACCAAGTGACCATGCTG
CTAAGCTGCTTGATAATAGTTTAATATCAGTAAAGGGACACAAGTTTAAAATTATTTGACATATTAGTGCTATCAGTTA
ATGACTTAAAAATAGCATCTTTGGTTTCTAGGTGTTGACAAAGATTCTCTAACTTACCAAACTTTAGCCATGCTCCTCT
GAACCCCCTTCTTGACTAGGCCTTAACTTCCTATCACAACTACAGATTCTCAACACCAATGATTTCATCCACTCGTGCC
TTAGGATGCCTGCCTGAGGAAGCTCAAGGTTGCCAGGAGAGTTTACTATTTCTTCTAGCCAACACCCTGGAGCTAGGCC
CAACCACCCTTTCTTAGAGCATTTACTAAAAAGGGCTTACAATTGTGAATCCTTGCCCTGTAACCTTTGATAAATATAT
GCACTTCCTACTGCTCAAGAGTGTCTTTCTCAAGGACCCAAGAGCCATTCTTCTAAAAAGTAACCATCAGGAGAGAGAG
GGCCTCTGTCTTTTGGTATCTGGGCAGATAGAATCCTAACTCCCATAATTGTCTAATCAACTTTAATGTTGACCAACCC
TTTGTAATTTTTCACTCTCTGACTTCACTGAGCCTGCTCTCACCCCTTCCCTTTTCTACTCTCTCATTCCTCTTCTGAA
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TGGTTCAAATCTGTCCTCCCACTTTAACTAGTGTCTGGCTTCCTTTATCTCTGACAGTGTGAAGAATTTGGAAATTGC
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TCAGGCTGGGGTGAGTTGTTATCAAATCAGAAGGAGTTATCAGTAGGGCACTAGTAATCAATAATGATTGAATGTGGGC
TACCAGAATTTGCCTTTTCATGATGTATACAGGACTTGTTTACATAACCANGTCTTCAAGAAGATAAAATTAGGAAGAC
ATCCAGATAACAGAAATGTGGAGAGACCTTGATATCATATTATGATTGAGAAAGAAAAAACACATAGACATTGACATTG
GGAAGGAATGACTACATCCAGTTATGGCAGCAAAGCTGTGTGTTGATTGATATTGTGAGAATGAATCAGTGATTGGGCA
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AGGAAAGATGATTGTTGTAGAAACACAATCAGTGAAATAGTCTGGTAGAAAGACTATTCCTTAAAATTCTTATACTCCC

Fig. 6.63

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ATAGAATTTACTTCTAAACCATACTGCCCTTAGACTTGAGCAANAATATTCCCTGCCCAGCCCNGCATTTCAGAGGATC
CTAATTAAACCCTCCTCTTGCCTTCCCCTTCCCCACAGGGTGAGCATTCTGTAAGTCCAAGTAATCATATCCCCTAACC
CTCCCATGTAAGCCATGGTCTGGGTATCTGGACTCTAGAATTTCCTGCCAGGGTAGTCCAAAACCAAGACACAGGTCTA
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CCATACATAAGTTTGCAAATCTCAGTGAAAGAATAAGTTGGCATGAAGAGAAGGAGGGGTAGGAGAGAGCCTGGGGGCC
AGCTTCTTCTGAATAAGTAAATTCTGGTGCAGGGCTTTTCTTAGGTGCGTTGCATATGTTACCTCATTTAATCCTGCAG
AACACTTCAGGGTAGTGTTCTACTGTCACATTATGGGACAGGGAAATGAGGCTCAGGGGAGTTAAGTAACAGACCCAAG
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CTCTCCATTTGTCAGTTTAGTAAATTGCTGCAAATGTTCTGGCTAGCAAGGACTCAAATGTCCCAGAACAAACTTTTGC
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GTCCTGGGGCTTGGTCTTTCCCTCCGCTCACCCCCACTTATCATGGATGCCAAGACCATTCTCTGCTGTTGGCAGAAAG
CCATGGAACATACTTCCCTAATTCCTGCTATAGGCTCATTTGGTATTTTCCCCATGTGCTCCCATTTGTACACTTAATT
GTTTGGGCTTATTTGTCTGTCTTCCTTGCTAAACTGTAGGCTCATTTGCGCACAGGCTTTGTGTCTCTCTTGTTTACCA
TTATATCATCACATCTAACACAATGCCTGGTACATAGAATACTTAATGAATTTTTACAGAATGACAATGGACTGCCATC
ATAATTGAGTCATTAACTACTTTTTCAAAAAAGTTCTAGCATTAAGGTATCAGATCAAAGTTTCCTTTCACAAAAAATCT
TACATTTTCCTCTATACTGTAATTGTATCTACCTGCTTGGGAGACTCACCAAGAGTGTAGTCACTGTGTACCCTCCCAGA
GTGACTTTTTTTATCTCATTTAGAACTATTTGTTACTGGATTCTCTTAAGCAAATGGTTTTGCCCACGCAGAGCTGTT
TGCTCACTGACACAGGCTTAACTGGTTAAAGAACTCACAGGTTGTTTCTCACCATTAATGGCTATTATGTTATTTTACC
ATCAGTTATACCTCATTTCTGCTTCTATCTTTACAACTGCAGGCTTTGGTCATTTTTAAAGTCGTTCAAGTTTAGATTG
CATTGACATTAAATCAAATCATAGAGGACAAACAACTATATATATTTTCACCGAGAGTGGGCACAGTAAAGAGTTCCCAGG
CTTTCTCTCCGACTTTTAGATAGGTCTTTTTCAGAAGCTTCCTATCTCCCTAAGAAGTCTGAGAGTTATTACAATTTCT
TTACCCTTTGCTTACATATCCCATCACATAGAAACCATTTAATAGAATCTATTGTAGCAGAGGCAGAACTTTACCTCT
GCTCTCATAGAGTCCCAGGTAGAACTGATGGTGAAATTGACATAAGGTAGATTAATAGGTANATTAGTCCATTCTCATG
CTGCTAATAAAGACATACCTGAGACTGGGTAATGTATAAAGGAAAGAGGTTTAATTGACTCACAGTTCTGAAGGTCTGA
GGAGGACTCAGGAAACCTACAATCATGGTGGAAGGGGAAGCAAACATGTCCTTCTTTACATGGTGGCAGCAAGGAGAAG
TGCTGAGCGAAGCAGGGGAAGTGCCCTTTGTAAAACCATCAGATCTCATGAGAACTCACTCACCATTATAAGAACTGCA
TGGAAGTAACCCCCCACCCATGATTCAATGACCTCCTACTGGGTCCCTCTCATGACACATGGGGATTATGGGAACTACA
GTTTAAGATGAGATTTGGGTGGGGACACCACTAAACCACATTAATAGGATAAAAGCATGTAAGTTTTACATAACACAGG
AGCCCTCATAAGGAAATGAAGACCCAAACAAGTGGCCAAACCTAAATGCTTTTATACTTGGTTGAACAAAGAGAGACGA
CTGTGAAAAAGTAACTAAATTATGTGGGAAGACTAAAGGAAGATCAATAAGAATTATTTTAACAAGGTCTGTGTGTACA
GAATTCTCTTAGTTGTGACTCCCCATCAAAGAATGTTTCTTTTCTCCTGGCAGAAAGACAGCAACTTTCACATGTGAGA
TTTTATCTCCTGTTTTCAGGGAAAAAAGGGAAAAGATTAGGGTGCGCTTTTTGCATCTGCTGTTATTCAAGTGCCCTTA
GTTCAAACTAATCCTTATACCAAAATGGCATATTCTGGGGTACATATTCTGCCATTCTTCACTACTAAATAACAGAACA
TATGCTTACCTATGTACTAGCTATTTCATTTCTGGTATGTGCCAAACAGAAACATATATGCATGAGCCCAAAAAAAATCT
ACAAATCTTTATACCAGCATTATTTGTAATAATCCAAATGGAAAACAGTCCAAGTTTCCATCAACAGAAGAATGCATA
CCTAAACTGCCATATAGCAAATATATAGTGAAATATTATACAGCAATGAAAATGAAACAGTAGTTTTACTGCTATAGGC
AACAATATAGATGAATATAATAAACATAATGTTGACTAAATCAATTAAAAAAGAGTACATACTGAATGACTTGATTCCA
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GGTTGTACTTTTGTGAAAATAGGCTGGTGACAATTATCTGAGGTCAGAGGAAGATTCTGTCATCATCATTGTCATGAT
CATAATTCTTATTTTGGTTTCTTTACTCATGTTTTTAAAAATTATATTTGTAGAAGCTATTATGTTAGGTTTAATAGAA
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TCTTTGACAAGGAGTCATAGCCAGAAGAATCCTGTACACACAGACCTTGTTAAAAATATTCTTATTGATCTTCCTTTAGT
CTTCACACGTAATTTTAGTTTACTTTTCCACAATTGCCTCTCTTTGTTCAACCAAGTATAACAGCATTTAGGTTTGGCCAC
TTGTTTGGGTCTTCATTTCCTTATGAGGGCTCCTGTGTCATGTAAAAGTTATGTGCTTTTCTCCTATTAATCTATCTTA
TGTCAATTTCATTATCAGGTCTACCTGGGACTCTAAGAGAGCAGAGGTGAAATTTTGCCTCTGCTACAGTAGGTTCTAT
```

Fig. 6.64

TAAACGGTTTTCTATGGCATGGGATATGTAAGCAGGGGATAAAGAAATTGTAATAACTCTCAGACTTCTTAGGGAGTTA
GGAAGCTTCTGAAAAAGACCTATCTAAAAGTAGGAGAGAAAGCCTGGGAACTTTTTACTGTGTCTACCTCAGTGAAAAT
ACATAGTTGTTTGTCCTCTATAATTTGATTTAATGTCAATGCAATCTAAACTTGAACGACTTTAAAAATGACCGAAGCC
TGCAGTTCTAAAGATAGAAGCAGAAGTAAGGTATAACTGATGGTAAAACAATATAATATCTGTTAATAGTGAGAAACAA
TCTGTGAGTTCTTTAACCAGTTAAACCTGTGTCAGTGAGCGAATAGCTCTGTGTGGGCAAAACCATTTGCTTAAGAGAA
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TTTAGGCAAGTCCTTATACTTATCTTTTACCTTTAAAGGAGAGTCAGAGATACCTAGCAGAATGGTTAAATAAAAAGTA
ATGACAAGAGCAAATGCTTGCAAGGTTGTGTGGAGAAACTGGGCCACTCATACATGGATAATGGGAATGTAAAATAGTACA
GGCACTCTGGAAAAGAGTTTGGCAGTTTCTTAAAAAACTAAACATGTAAGTACTACACTATCCAGTAAATGCACTCCTG
GGCATTTATCCCAGAGAAATAAAGACTTCTGTGTTCACAGAAAAACCTGTATGTAAGTGTTTATAGCAGTCTTATTTAT
AATCGCCTAAAACTGGAAGCAACACAGATGTCCTTCAGTGGGTGAATGATTAAACAAACTGTGGTACATCTACACCACG
GAATACTACTCAGCAATAAAAGAAACAAACTACTGATACATACAATGATCTAGATGAATCTTGAGAGAATTATGCTGAA
TGGAAAAAGCCAATCCCCAAGGGTTGCATACTATATGATTCAAATTATATAACATTGTTGAAATGACAAAATTATGAAA
TGGAAAACAGATTAGTGTAGATTAGTAGTTGCTAGGGATTAAGAAGGGAAGGAATAGGAGGAAACTGGGTGTGGCTATT
AGAGGGGCAACATGGGAGATCCTGCTGATAATGGAACTGTTTTATATCTTGACCATATCAATGTCAATATATTGGTTGT
GATATTATTACCATGGGGGAAAACTGGGTAAAAGATACACTGATTTTGTATTATTTTTTATAACTGCATGTGAATCTAC
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GACCAGTCATTAAGCTATTGTTTAGTTCTCATTTGGCTTAGGTGGTTCAGGGATCAGCTTAGGGAATAATAGAGGCAAT
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GAAGCCAAGGTATGCTGGGGAAAGACCAGCAGAGAATTGCTGAAGTTACAAGGCCAGATATGATAGAGCTTTGGCTAGA
GCTGTGGTATAAGGATGGAGGGAAGTGGAGGGGTATCAGATGTAGTTGGGAGGTAAGGGAAGAAATCAGTGATAGATTA
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AAGAGAGGTAAAGGTGTGAAAAGAGCTGAAAAAGTTTGAAATATGTTAGGGTTTTGTGTGTGTGTGTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTATGTGTGTCCATATATATTCAATGTTTAGCTCCCACTTGTGAGAACATGCAGCAT

<div align="center">Fig. 6.65</div>

TTGGTTTTCTGTTCCTACATTTGTTCACTTAGCATAATGGCCTCCAGCTTCAACCATGTTGCTGCAAAGGACATGATCT
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ACCAAACTGCTTTCCACAATGGCTGAACTAAATTACATTCTCACAAGCAGTGTGTAAGCGTTCCCTTTTATCTGCAACC
TTGCCAGCAAATTAAAAAAAAAAACAGTATTTTTTGACTTTTTAATCATAGCCATTCTGACTGGTGTGAGATAGTATCT
TATTGTGGTTTTGATTTGCATTGGCCTAATGATTACTGATGTTGAACATTTTTACATATTTGTTGGTTGTGTGTATGTC
TTCTTCTGAAAAATGTCTGTTCATGTCCTTTGCTCACTTTGTGATGGGGCTGTTTTTTGCTTGTTAATTTGTATAAGTT
CCTTATAGATGCTGGATATTAGACCTTTGTCAGATGCATAGTTTGCAAATATTTTCTCCCATTCTGCAGGTTGTCTGTT
TAGTATATTGATAGTTTCTTTTGCTGTGCAAAAGCTCATTAGTTTAATTAGATACCATTTGTCAATGTTTTATTTTTGT
TGCAATTGCTTTTGGCATCTTTGTCATGAAATCTTTGCCAAGACCAAAGTCCAGAATGGTATTTTGTTGGTTATCTTCC
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GGTCCAGCATCAATCTGCATTTGGCTAGTTAGTTATCCTAGCACCATTTATTGAACAGGGAATCCTTTCCCCATTGCTT
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TGCCTCTAGCTTTATTCATTTGCTGAGGATTACCTTAGCTATTCAGGCTCTTTTTTGGTTCCATATGAATTTTAAAATG
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TGCACTTTTCCAACAGTCTTAGCAAATGGCACACCAGGAGATTATATCCCGTGCATGGCTCAGAGGGTCCTATGCCCAC
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GCAACTGGGTCCCTGACCCCCAGTAGCCTAACTGGGAGGTACCCCCCAGTAGGGGCAGACTGACACCTCACACGGCTGG
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CCTCTGCTGCTGATACCCAGGGAAACAGGGTCTGGAGTGGACCTCCAGCAAACTCCAACAGACCTGAAGCTGAGGGTCC
TAACTGTTAGAAGGAAAACTAACAAACAGAAAGGACATCCACACCAAAACCTCATGTGTACGTCACCATCATCAAAGAC
CAAAGGTAGATAAAACCACAAAGATAGGGAAAAAACAGAGCAGAAAAACTGGAAACTAAAAATCAGAGCACCTCTCCTT
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TATGTGAAAAGACCAAATCTATGTCTGATTGGTGTACCTGAAAGTGATGGGGAGAATGGAATCAAGTTGGAAAACACTC
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AGGATCAAATTCACACATAACAATATTAACCTTAAATGTAAATGGGCTAACTGCTTCAATTAAAAGACACAGACTGGCA
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GAGACTTAGACGCCCATACAATAATGGGAGACTTTAACACCCCACTGTCAACATTAGACAGATCAACGAGACAGAAAGT
TAACAAGGATGTCCAGGAATTGAACTCAGCTCTGCACCAAGCAGACCTAATAGACATCTACAGAACTCTCCACCCCAAA
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AAACTCACTCAAAACTGCACAACTACATGGAAACTGAGCAACCTGCTCCTGAATGACTAATGGGTACATAATGAAATGA
AGGCAGAAATAAAGATGTTCTTTGAAACCAATGAGAACAAAGACACAACATACCAGAATCTCTGGGATACATTCAATGC
AGTGTGTAGAGGGCAATTTATAGCACTAAATGCCCACAAGAGAAAGCAGGAAAGATCTAAAATGGACACCCTAACATCA

Fig. 6.66

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CAATTAAAAGAACTAGAGAAGCAAGAGCAAACACATTCAAAAGCTAGCAGAAGGCAAGAAATAACTAAGATCAGAACAG
AACTGAAGGAAATAAAGACACAAAAAACCCTTCAAAAAATCAATGAATCCAAGAGCTGGTTTTTTGAAAAGATCAACAA
AATTGATAGACCACTAGTAAGACTAATAAAGAAGAAAAGAGAGAAGAATCAAATAGATGCAATAAAAAATAATAAAAGG
GATATCACCACTGATTCCACAGAAATACAAACTACCATTAGAGAATACTATAAACACCTCTATGCAAATAAACTAGAAA
ACCAAAAACAGACTCTGAAATTGAGGCAATAATTAATAGCTTAGCAACCAAAAAAAGTCCAGGACCAGATGGATTCACA
GCTGAATTCTACCAGAGGTACAAGGAGGAGCTGGTACCATTCCTTCTGAAACTGTTCCAATCAATAGAAAAGAGGGAAT
CCTTCCTAACTCATTTTCTGAGGCCAGCATCATTCTGATACCAAAGCCTGGCAGAGACACAACAAAAAAAGAGAATTTT
AGACCAATATCCCTAATGAACATCAATGCAAAATCCTCAATAAAATATTGGCAAACCGAATCCAGCAGCACATCAAAA
GCTTATCCACCATGATCAAGTCTGCTTCATCCCTGGGATGCAAGGCTGGTTCAACANACGCAAATCAGTAAACATAATC
CAGCATATAAACAGAACCAATGACAAAAACCATATGATTATCTCAATAGATGCAGAAAAGGCCTTTGACAAAATTCAAC
AGCCCTTCATGCTAAAAACTCTCAATAAATTAGGTATTGATGGGACGTATCTCAAAATAATAAGAGCTATCTATGACAA
ACCCACAGCCAATATCATACTGAATGGGCAAAAACTGGAAGCATTCCCTTTGAAAAATAATAAGAGCTATCTATGACAA
CTCTCTCACCACTCCTACTCAACATAGTGTTAGAAGTTCTGGCCAGGACAATCAGGCAGGAGAAAGAAATAAAGGGTAT
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GCCCAAAATCTCCTTAAGCTGATANGCAACTTCAGCAAAGTCTCAGGATACAAAATCAATGTGCAAAAATCACAAGCAT
TCTTATACACCAATAACAGACAAACAGAGAGCCAAATCATGAGTGAACTCCCATTCACCAATTGCTTCAAAGAGAATAAA
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GGATACAAACAAATAGAAGAACATTCCATAATCATGGGTAGGAAGAATCAGTATCATGAAAATGGCCATACTGCCCAAG
GTAATTTATCGATTCAATGCCATCCCCATCAAGCTACCAATGACTTTCTTCAAAGAATTGGAAAAAACTACTTTAAAGT
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GGGGAAAGGATTCCCTATTTAATAAATGGCACTGGGAAAACTGGCTAGCCATATGTAGAAAGCTGAAACTGGATCCCTT
CCTTGCACCTTATACTAAAATTAATTCAAGGTGGATTAAAGACTTAAATGTTAGACCTAAAACCATAAAAAACCCCAGAA
GAAAACCTAGGCAATACCATTCAGGACATAGGCATGGACAAGGACTTCATGTCTAAAACACCAAAAGCAATGGCAACAA
AGCCAAAATTGACAAATGGGATCTAGTTAAACTAAAGAGCTTCTGCACAGCAAAAGAAACTACCATCAGAGTCAACAG
GCAACCTACAGAATGGGAGAAAATTTTTGCCATCTACTCATCTGACAAAGGGCTAATATCCAGAATCTACAATGAACTC
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GAGATACCATCTCACACCAGTTAGAATGGTGATCATGAAAAAGTCAGGAAACAACAGGTGCTGGAGAGGATGTGGAGAA
ATAGGACCACTTTTTACACTGTTGTTGGGATTGTAAACTGGTTCAACCATTGTGGAAGACAGTGTGGTGATTCCTCAGGG
ATCTAGAACTAGAAATACCCTTTTGACCCAGCCTTCCCTTACTGGGTATATACCCAAAGGATTATAAATCATGCTGCTAT
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TGATAGACTGGATTAAGAAAATGTGGCACATATACACCATGGAATTCTATGCAGCCATAAGAAATGATGAGTTCATGTC
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CAGTTGGGCATGGCAGCATGTTCCTGTAATCCCAGCTACTCGGGAGGCTGAGACAGGAGAATTACTTGAACTCAGGAGA
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ATTAAAAATCTTCCTAACTTTTTGATGTGAGCATTTAGCACTATAAATTTCCTCTTAACACTGCTTTAATATTGATAAG
ATAGAGATTCTGGTATCTTGTATCTTTGTTCTCATTCATTTCAAATAATTTCTTGATTTCTGCCTTAATTTCAATGTTT
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Fig. 6. 67

ACCCAAAAGTCATTCAGGAGCAGGTTGCTTATTTTTCATGTAATTGTATGGTTTTGGGTGATTTCCTTAGTACTGATGA
AATGGTTTGGCTCTGTGTTCCCACCCAAATCTTGCCTTGAGTTGTAATTGTCATAATCCCCACGTCAAGGGTGGGACCA
GGTGGAGGTTATTGGATCATGGAGGTGGTTTCCCCCATGTGGTTCTTGTGATAGTGAGTTCTCATGAGATCTGATGGTT
TTATAAGCATCTGGCATTTCTCCTGCTTGCACTCACTCCATCCTGCCGCCTTGTGAAGAAGGTGCCTGCCTTTCCTTTG
CTTTCTGCCATGATTGTAAGTTCCTGAGGCCTCCTAGGAGTGCAGAACTGTGAGTCAATGAAACTTTCTTCCTTTATA
AATTACCCAGTCTCAGATATTTCTTCATAGCTGTGTGAGAATAAACTAATACTACTGATTTCTATTTTCATTAAGCTGT
GGTCTGAAAGTGTGGTTGGTATGATTTCCGTTTTTTTGAACTTGCTAAGAATTGTTTTATGACACATTGTGTGGTTGAT
TCTAGAGTATGTACCATGTGCAGATGAGAATAATGTATATTCTGTTATTTTTGGTTGGAGAGTTCTGTAGATGTCTGTT
AGGCCAATTAGGTGAAGTGTTAAGTTCAGGTCTCGAATATATCTATGTTAGTTTTCTGCCTCAGTGATCCATCTGATAC
TGTGAATAGGGTGTTGAAGTCTCCCACTATTATTATGTGGTTATCTAAATCTCTTTGTAGGTCTCTAAGAACTTGTTTT
ATGAATCTGGGTGCTCCTGTGTTGGGTGCATATATATTTAGGATAGTTAGGTCTTCATGTTGAATTGAACCCTTTACCA
TTATGTAATGCCCTTGTCTTTTTGATCATTGTCAGTTTACAGTCAATTTTGTCTGAAATTATAATACAAACCCATGCCT
TGCTTGGTATAATTTTCTTCATTCCTTTACTTTGAGCCTATGAGTGTCACTGCATGTGAGATGGGTCTCTTGAAGATAG
CATACAGTTAGGTCTTGTTTCTTCATTCAACTTGCCACTCTGTGTCTTTTAATTGGGACATTTAGCCCATTTACACTCA
AGGTTAACATTGACATGTGTGGAGTTGATTCTGTCATCATGTTGTTAGCTGGTTATTATGCAGACTTGATTGTGGAGTT
GCTTTATAGTATCAGTGATCTATGTACTTAAGTGTGTTTTCATGGTGGTGGGTAATGTTCTTTTCTTTTCATATTTGGT
ACTTCCTTATGGACTTCTTGTAATGCAGGTCTGGTGGTAATGAATTCCCTTAGCATTTGCTTCNCTGAAAAGATTATAC
TTCTCCTTTGTTTATGAAACTTAATTTAGCCAGATATGAAATTCTTGGTTGGAATTTCTTTTCTTTAAGAATGTTGAAT
ATAGGCCTCTGGCCTCGTCTGGCTTGTAGGGTTTCTGCTGAAAGGCCTGCTGTTAGCCTGATGGAATTTCCTTTGAAGG
TGACTTGCCAGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGCGGATCACCTGAGG
TTGGGAGTTCGAGACCAGACTGACCAACATGGAGAAACCCCGTCTCTACAAATACAAAAATACAAAATTAGCCAGGCG
TGGTGGCACATGCCTGTAATCCCAGCCCTGGGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGGAGGTGAAGACTGTG
GTGAGCTGAGATCGCTTCATTGCATGCCAGCCTGGGCAACAAGAGCAAAACTCCACCTCAAAAAAAAAAAAAAAAGACT
TATTTTAATGAGTTGGACTCAGATTAGCTAATAAAAATTGCCTAAGTGTGAACCTTCATATTTCCTATGTATGGGGAAT
GTTACGAGGTATGCTGGTGGGAACACAGGAGAGCACATGGAATGATTATCCCCCACTTGCAGAATTTCTTGTTTGGCTA
GAAAGGGAACATACTTGTACAAAAGGCATAAAAAGATGTTTAAAGAGGTGAGCAAAGGCTCAGAGAGTAAGAGAAAGTA
GAGACTACAGAAATATTCCATAAAGGAAGATTCAGGAAGAAGTGTGTCAGAAGTAGAGCAAGAGCGAAGGTTGGATTTG
CTGACTACTACTAATCCATTTCTCAGGAGCATGTGCAGATGCACATGGGAGGTTATAATGTCGGTATCTGTTAGAACCC
TATTCTGTTGGCCAGAAGTCAATCACACAACCCCACTTTTCTGCTAGGGTGGCTGAAAAATACTTTACCTGTGTTCCTG
GAAGGAAAGTGAGGCTTTTTTGAGCATTTAACCAGTCTCTGCTACACACCCACTGGAACTTTGCAGAATAAACTTCAGT
TCCTCTCCTCCTCATTCATTTTTTAAACCTTCCCTTCTCCAAGTGAGACACTGTTAGTTCTATCAACTATTATTCATAT
ATTTATTTTTGTTCCCAAACCCTCTACTATCCTGGCCATCATAAAGCAAACATTCTTGATTTTTATTGTTCTTCTCAAA
ATGAGATGCTCACTGTAGAACGTAATACTGTATATGTGATTTTTTAAAATGCTGGTAAAGTGGGATTATTGTTTTCATT
GATTTCATAACTATCAGGTCAAAGAGAGGGCCAAGATTGGGGACTTTGCATTTTTAAAAAAAGAGAATTTGAAGAAGGA
AAAGGGTCTCCAGGATGCCACTTCAGTATGGCAGCTGTGGGAAGCACTAGTGGTAAGGTGCTAGCTATTCTTTCCTACT
TCTCCAAGAGGAAAAAGGGTACTCACACTCACAAATCAATTCATTTCCATCAAAACTCCAAAGTGAAGTCAAGGAGAAT
AAGTGCACTCAAATGATGTTACTTATATATTAGATTATGGATTTAAATAAAACACCAAGGATTTCTGTATTAAAATCTT
TTTATTGTGATGTTAACTAGTCCACATGTCTTACATAGTATCTAGGTCTTATGCTTAATAATTTGGCCAGTAGTCCAAA
TTATTACATGATATATAAGCAAATTAGCATTGCTATAAGAAACTAAAATTTATCACCTGCTGCTAATATGGCATTGATG
TTGTGCCATTTCAGCATATCCCTATGGCCCCATTCCTGATGTTTTCATCTGTAGATCCAGTGAGGAGAGAAAAAAATGA
GTCGTTTTTTCCTGTTCTTTTTCTTTCAACAGTTGTGCTTTCAGTGTTCTCTGTTAAGAAATATTATAACCCTGAGGGAG
TGAATGTTCTTATCAGAGAAGAGAACTGGTTGAAAATGATTTAGTTTCTGAATTCCTAGAAGAAGGGAAAAAGCCTAAG
TGTCCATCTCTCTATCTAGTCTACTAATAGGATTACCTATTTCAAATATATATAATTTTTCTAAATTGAGTTTTTAATG
TCAAAGTTTCAGGATCCACTGGTTTCCATAGTTTTAGTTTGTCCAGTTGTTTATGGTTAGGCTCATTGTGAACAGTGAC
CATTATACTTCTCTTTTTCTATAAATGTGGCTGCTTTTGAGAATGGAAGTTGTAGGAAACAGAATTCATTGTAATCTGA
ATTTAAATTTAGCTTCCTGTTGCAGCTCCTCCCCTCCCCCTCCTCCCTCATGTTTCTCCCTGTCCCCAGACTGTCTTTC
AGAGGCAGATGCTATGCACATAAATGACATTTATTGATTTGAGTATTAGAGACTTTTTCTTGACAGACTCACCCATCAC
AATATTTAAGTAATATTAACAGTTTCCCACCAAGAACTCAGAGTAAACTAAACAGTGAGTATCCAGGCAGAAAGCCATG
TACTTTTAGAGCTCAATATGTTTATAATATATATGAAGGCAAACATAGAGGCAACATAAATACCTATTCTACTTGGTTG
TAATCTGCCAATTTATATTTTTCGGAGAAGAGTTTATCACTAAATCACTGAGAGGCAGAGTAGGATATCTGGGGGAAAT
GGTGGTGGGCGGGGGGCAAGTTTGTTATCTGGAAAAAAGATTGGGAGCCAGGGAGGATTTTCAAATTCGAATCCCTCAG
CTCAGTCTTGGGGCATTTGTTTTGCCATCTGAATTATCTTGGAACCCAGAGAAAACTGGTTGTGAAAACTACAGATGC
AATTTTCTTCTTTGGCTTTTTCCCATAATACTGTAATTATAAACCATGCTGTGTTAGAGTGGAACATTCTTTGGAGAGCA
TCCTAAAGTGCACTTTGATCAAATTTTGCCTTATGTGGCAACATTTAGAAACACAAGCCTTCGTGGGGTTTCTGGCTCT
ACTTTTTACTGATGGGCTGATAATCTTATAGTAGCATTAGTTTTGCCACCAATTACCAAAGATTTGTTATTATTGGTTT
TTAAAATTGGACAATCCTTAAATGTCTACAGCAACGTTAGAAACAGACCCACAAGTGGGTGGGTCAGACTAGTTTGGAA
ACCTCCAATCTTGGCTATTTGGTACCTCAGAATTCAACAAGGGATGTTGGAAAATTTTCAAAATAAAATTAATTTAAAT
TCAGTTTTGCAAAAGATTATACTATAGAACACATTGAAAAGAGAAGGTTAGCTGGAAAGTCAAACATAATAGAATTTG
AAAATTACTAGGCTTTAAGTTATGAAAATATTTCCCATATGTTGAGACAGAATTTGTATTCTCTTTTTTCTCAATGGCA
TTTTATGAGACTATATACTGCTGCTCTTCTGTATAAATAGAATAGAAACATCTCCATTTTTAAATTGTCATGGAAATAA

Fig. 6.68

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GTAATGGCCTGTGAACAAAATGACTTCTTTTTGTTTTGTTTTGTTTTGTTTTGATGGAGTTTTGCTCTTGTTGCCCAGG
CTGGAGAGCAATGGTGCTATCTCGGCTCACTGCAACCATAGCCTCCTGGATTCAAGTGATTCTCCTGCCTCAGCCTTCC
GAGTAGCTTGGATTACAGGTGTCCACCACCATGCCCCACTAATTTTTGTATTTTTAGTAAAGACAGGGTTTCACCATGT
TGGCCAGGCTGGTTGCAAACTATAGGCTGTCACTCTCTATGCTTTAATATTTTGGTTAATTTTAAGGGCATAATTTGTG
GGGACATTGTTCTTATTTGCCATTACTTTTCATAGCAAAAACAGCAATTACTTTTGCACCAACCTAATATTTCCTTTGC
TAATCTAGTGTGACTTCGGAACAGTGATAAATAAAGGTTGGGGAAGAAAGGGCTGACTAGTAAATGCAGACAGAGTTGA
GGCAATTTCACAGTTCCATTGGCGTGTTCTATGGGCCATTTCACTTTCAGATGGTTTGTCTGGCTGAATTTAGAGGCTA
ACCTCTGGGGTTTTGCCTTTCTTCTTGTGACCTGAGAATTTGCTGGCATGTACAAGTCAATTTTCTTAATAGCCTTTCT
TGATTAGTCTATAGCTTCTTCAGTGAGTTGATATGTCACATTTACTTATACTAAAATCTTACACTAGACATATTTTGGT
GTCTTTGGCATCAAACCTCTTTTAGTCATTTGTCTTTCTTGTCTAGAGCTAGTGTCATAATATTTTCATTGTTACAGGT
TTCTAATACACTTTAAGATCTAGAATGACATAACTCCCATTGTATCCTTTCTCCTTTTATCTTTTAAGAAAAAGAATTAC
TATTCCTGAACTTTATTTATATATTTAATTAGTTATGTTTGCATTTTTAAAAAGTGAGATAGGTGTATCTTTTCAAAAA
TAATCATTGTCAGGTATGGTATTAGGTTTGTAATAGCTATTAGCTATTACATTACTTTTAATGGCAAAAACCACAAATA
GTTTTGCAACAACGTAATATAATGAATACAATAGGCTTCCATTGTTTATCTATGTTGTGGAATATAGTGTAATTCTGAA
ATAACTTACTTCTTATACAATTTTTGTTTTGCTTTTTTGGTTTAGATCGACTTTTCTAAAAGTCTTTTTCTTTTGTTTC
TGCTATATATTTGTTTTCCTATGTTCCGGTTTCGATTTCTTTCTGGATCAGTTTCATCACTTCATGTTTTCTTACATTA
TTGCCACTGCATTAGTCTGTCACGTTAATCAGAATAGGATTGTATATGGTATTCTTTTGTATATTTTTAATCTTGTTTC
TATATTTGGTGAAATATACTTTGTAATTTTTAAGGAAATCTAAATTTTCTTGTCTTACTCTTGCAGAGTTCTACTTACT
TAAATGAATATGTCATTCTGTTTTGTTTTTTATTGATTCGTTCCTGTGACTTTTCTTCAGGTTATTTTGTTGACCTTT
ATTGAACTTCTCCAGTTTATTGAGTTGAATATTTTGTTATTTTATTTATTCAATTTTTAAAATGATGAGAACCCTGAA
TGCCATGTGTTTTTTTCCTTTTGAGTCCATCCTTTACCACACATCATTAGATTTTATATAGATTTTTCAGTTGTTCTTA
ACTTTAAAATAGTTTGTAATTACAATTTGGATTTATTCTTTAGCCTATGCCATTTAGAAATGTTTTATGTTAAGGTTTA
CCTTTGCGTTTTTATTTTTAAAGGTTATCTTATGATATTAATTCCACTGGATTATGTGTACGTCTTTCACATACTTATG
CATTCTTGTGGTTTATATAATTTCTATGTTTTATAGCTTTCATCTGCCTCTATCTAATATATGAACAATTTTTGATCAA
CTTTTTACAAAAGTATTTTCTTGATTTGAAGAATCCAAACTTTTAAATGTAACTGTTAGACCAACTTCATTAATTGAAT
TTACTCATATGCTTTATGGACCTTTTAATTTTCCAGCTACTTTTTCTCTTTAAGAGAGTTTTGTTAGACTTTAGTACTG
TATTTCTGTTAGTTTCTTCTTACAGTTATAACTATGTGTGTGTGTGTATGTGTGTGTATACACACATGTATATATATTT
ATACACACACATTGTAATATGTGAGTGTCTTATGGGCTACAACATTTTCTTAGAGTCTATATTTTATTTGAAGCTAGAGT
TTTTTTTTTTTTTTTAAGTAAGAAGTTTTATTTCTTCCTGGAATCTTGCAGGATTTTTTTTTTCTGTTTACTCAGTAGTTTA
AAAAGTGCCAGATATGTTAAGGTTTAGGTCTTTTACTGATTTATTTTTTTCCTGGAGCCATGTCACCCATTTTCCTGAG
ATCAGGAAAGTTTTCTTGGGATGTGTATTTGGTTATTGTTTCTGTTTTATTTCTCTGGACTCTCCTCTAGGAATACTGA
TGAGCTATATGTTAGCTCCCTAGTCTCTGTTTTTCAATTCTTTCTTCTTCTCTATTGTACTTTTATTTTCCTTTCTCCC
TTTAATTTCTATGTAATCTTCCTTTAAAAAAAATTCTCTCTCCCTTTTCATTTTACCCACTGTCCATTGCCTTGTTTAAC
CTACCTGGAATCCTCTTCATTTCATCCTGTTTTCTTTTCATAAAGGCCAATTTATTGGTTCTTTATTAAGGACACCAAG
TAGTCTTCTGAGTTTTTCTTTTGGATTCTGCAGTAAAAATTTTTCAGAGGTTTGTTCTGAATTTTTGGAGCACTATTCT
CTTTCCCCTGTTGTGTGTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATAGCTCAAAACTAAAATAACTAGAGAA
TCAAATATATATATATATATTACTCAATTTTAAGTAAAGCCACAAAGATACCCAAGTTGAGTGGGTTTTTTTGGTCCAG
CTCTTTTTCTATTACAATGGTGTTGAAAACTTAATATCCAGTTTACAGTTTAATGAATATTGTTGGGGTTTAGTTGCCAT
TTCAATTACCATTTTCTGTTAATTTTTATTTAAAGTATCTCCTCTCAGTTGGCTTTTGATCATTCAGCTTCTGCAGCCT
GATTCTTTGATACTATAAGAAGTTATACACGGTATCTGTAATTCTCAACCTATCAGGATTGCTCCTCTGTGCTCTGTTC
ACCTTTTCTCTCTCCATTTCTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTGTCGCCCAGGCCGGACTG
CGGACTGCAGTGGCGCAATCTCGGCTCACTGCAAGCTCCGCTTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCG
AGTAGCTGGGACTACAGGCGCCCGCCACCGCGCCCGGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTCACCTTGT
TAACCAGGATGGTCTCGATCTCCTGACCTCATGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAG
CCACCGCGCCCGGCCCTTCTCTCTCCATTTCATCAACCAAAGGCTCTACCTCTGCAGACTAAGCCTTTTGGAACATGTG
GCTTTACGGGCCTCTCTCCCCTACTTTCTGCTCACTTTTTTTTTCTTAAATACGCTGGAATGGTGGGAGAAAGAGCATT
TGCCTCCAAGTAAAATTCCCCAAACCAAGAACTCTGGGTCCCTTTTATCCAATAAAGAAAAGAAGGAGTGTTTGCTTTG
GCAGAACATATACTAAACTTGGAACAACACAGAGAAGGATTAGCATGACCCTCACACAAGGATTACATGCAAGTTCCTGA
AGCGTTCCATATTTTCTTACGTAATAGTAAAGGGTTCGATTCAACAAGAAGAGATAACTATCCTAAATATATATGCACC
CCAATACGGGAGCACTCAGATTCATAAAGCAAATTCTTAGAGACTTACAAAGAGACAGACTCCCACACAATAATAGTAG
AAGATTTTAACACCTCACTGACAATATTAGACAGATCATTGAGACAGAAAATTAACAAAGATATTCAGAACCTGAACTC
AGCTCTGGATCAAGCAGACCTGATACATATCTACAGTTATTCTCCACTAAAAACAACAGAATATACGTTCTTTTCATTGC
CATACAGCACTGACTCAAAATTAATCACATAACCGGAAGTAAAACACGCCTCGCAAATGCAAAACAACTGAAATCATAA
ACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGACGGGCGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACA
AGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATCGCGCCACTGCACTCCAGCCT
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Fig. 6.69

GGGCGACAGAGGGAAACTCCCGTCTCAAAAAAAAAAAAAAAAAAAGAAATCCAGATATAACCACACAATTACATGGCAAT
TGAACAACCTGCTCCTGAATGACTCTTGGGTAAATAATGAAATTAAGGTAGAAATCAAGAAGTTCTTTGAAACTAATGA
GAAAAAAGAGACATCCATACCAGAATCTCTGGGCCGTAGCTAAAGCGGTGTTAAGAGGGAAATTTAGGCTGGGCACGGTG
GCTCACGCCTGTAATCCCAGTACTTGGGGAGGCCTAGGTGAGCGGATCATTTGAGCTCAGGAGTTTGAGACCAGCCTGG
CCAACATGGTTAAACCCTGTCTCTACTAAAAATACAAAAAGTAGCTGGGTGTGTGGCACGCACCTGTAGTCCCAGCTAC
TTGGGAGCCTGAGGCAGGACAATCTCTTGAACCTGAGAGGCGGAGGTTGGAGTGAGCGAGATTGTGCCACTGCACTCCA
GCCTGGGTGACAGAGTGAGACCCTGTCTAAACAAAACAAAACAAAACAAAACAAAAAACCAAAATTTATAGCACTAAAT
TCCCACATCAAAAATCTGGAAAGATTTCAAATTAACAATCTAACATCACAACTAAAGGAACTAGAGAATCAAGAGCAAA
CAAAACCCTAAGCTAGCAGAAGACAAGAATAACCAAGATCAGTGTTGAATTGAAGGGGATAGAGACACAAAAAAATCCT
TCAAAATATCAACAAATCCAGGAGCTGGTGTTTTGAAAATAATTAATAAAAGAGACTGCTAGCTAGACTAAAAAAGAAT
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CCATCAGAGAATACTTTAAACACCTCTATGTATATATATTGGAAAAACTAGAAAAAATGGGTAAATTCCTGGACACATA
CACCTTCCAAAGACTGAACCAGGAAGAAATTGAATCCCTGAACAGATCAATAACAAGGTCTGAAATTGAGACAGTAGTA
AGTAACCTACTAACCAAAAAAAGCCCTGGACTAGATGGATTAACGCTGAATTCTACCAGAGGTACAAAGAAGAGCTGG
TACTATTTCTGCTGAAACTATTCCAAAAAAAAGGAGGGACTCCTCCCTAACTCATTCTATGAGGCCAGCATCATCCTGA
TACCAAAACCTGGCAGAGATATAACAAAAAAAGAAACTTCAGGCCAATATCCTTGATGATCATTGATGCAAAGTCCT
CAATAAAATACTGACAAAACAAATCCAGCAGCACATCAAAAAGCTTATCCACCATGATCAAGTTGGCTTCATCTCTGGG
ATGCAAGGTTGTATCAACATATGCAAATCAATAAATATTATTCATCCTATAAAAAAAAACTAAAGACAAAAACCACATCA
TTATCTCAATAGATGCAGAAAAGGCCTTTGATAAAGTTCAACATCCACTCATGTTAAAAACTCTCAATAAACTAGATAT
TGAATGAACATACCTCAAAATAATAAGAGCCATATATGACAAATCTACAGCCAATATCATACTGAATAGGCACAAAACA
AGGATGCCCTCTCTCACCACTCCTATTCAACATAGTATTGGAAGTTCTGGCCAGGGCAATCAGGTGAGAGATAGAAATA
AAGGGTATTCAAATAGGAAGAGAGGAAGTCCAGTTATCTTTGTTTGCAGATGATATGATCCTATATCTAGAAAACAGAT
AGTTTCAGCCCAAAAGCTTCTTAATCTGATAAGCAACTTCAGCAGTCAGGATACAAAATCAATTTGCAAAAGTTGCTGG
TATTCCTGTACACCAACAGCAGGCAAGCAGAGAGCCAAATCATGAATGAACTCCCATTCACAATTACTACAGAAAGAAT
AAAATACCTAGGAATACAGCTAGCAAGGGAAGTGAAGGACCTCTTCAAGGAGAACTACAAACCAATGCTCAAAGAAATC
AGACATAACACGAATGGAACAACATTTCATGCTCATGGATGGGAAGAATCAATATTGTGAAAATGGTCATGCTGCCTAA
AGTAATTTATATATTCATGCTATTCCCATTAAATTACCATTGACATTCTTCACAGAATTAGAAGAAACTATTTTAAAAT
TCGTATGGAACCAAAAAAAGAGCCCAAATTGCCAAGACAAGCCTAAGCAAAAAGAGTAAAGCTGGAGGCATCATGCTACC
TGACTTCAAAATATACTACAAGGCTACAGTAGCCAAAACAGCATGGTATTGGTATAAGAACAGACACAGAAGGCTGGGC
GCATTGGCTCACGCCTGTAACCCCAGCATTTTGGGAGGCCTAGGCAGGCAGATCATGAGGTCAGGAGTTTGAGACCACC
CTGACCAACATGGAGAAACCCCATGTCTACTAAAAATACAAAAATTAGCCAGGTGTGGTGGCATGCACCTGTAATCCCA
GGTACTCAGGAGGCTGAGCCAGAAGAATTGCTTGAACCTGGGAGGTGGAGGTTGCAGAGCTGAGATCGTGCCACTGCAC
TCCAGCCTGGGCAACAGAGTGAGACTCCATCTCAAAAGAAAAAGAAAAAAAAAGAACAGATACATAGCCCAATGGA
AGAGAATAGAGAACTCAGAAATAATACCACACACCTCCAACATCTGATCTTTGACAAATCTAACAGAAACAAGCAATGG
GGAAAGCATTCCATACTTAATAAATGGTGGTGGGAGAACGGGCTAGCCATATGCAGAAAATTGAAATTCGGCCCCTTCC
TTACACCATATACAAAAATTAACTCAAGATGAATTAAAAACTTAAATGTAAAACCCAAAACCATAAAAACCCTAGAAGA
AAATCTAGGCATTACCATTCAGGACATAGGTACAGGCAAAGATTTCATGATGAAAATGCCAAAAGCAATTGCAACAAAA
GCAGAAATTGACAAATGGGATCTAATTAAACTAAAGAGCCCCTGCACAGCAAAAAAAAACTATCATCAGAGTGAACAGA
CAGCTTACAGAATGGGAGAAAATTTTTGCAATCTGTCCATCTGACAAAAGTCTAGTATCCAGAGTCTACAAGGAACTTA
AACACATTTACAAGAAATAAACCAATGGCCCAATTAAAAAGTGGGCAAATGACATGAACAGACACTTTGCAAAAGAAAA
CATTCATGCAGCCAACAAGCATCTGAAAAAAAGCTCAGCATCACGTCATTAGAGAAATGCAAATCAAAACCACAATGAG
ATACTATCTCACACCAGTCAGGACAGCTGTGATTAAGAATAAAAAAAACAACAGATACTGGTAAAGTTGTAGAGAAAAA
GGAATGCTTTTACACTGTTGGTGGGAGTGTAAATTGGTTCAACTGTTTTGGGAGACAGTGTGGCGATTCCTCAAAGACC
TTGAGGCAGAAATACCATTTGAGCCAGATCCCATTACTGGCTATATACCCAAAGGAATATAAATCATTCTATTATAAAG
ATACATACATGTGTATGTTCATCACAGCACTATTTACAAAAGCAAAGACATGGAATCAACTTAAATGCCCACCAATGAT
AGACTGGATAAAGAAAATATGGAACATATACACCATGGAATGCTATGCAGCCATAAAAAAGGATGAGTTCATGTCCTTT
GCAGGGACATGGTTGGAGTTGGAAGCCACTGTCCTCAGCAAACTAATGCAGGAACGGAAAACCAAACACCACAGGTTCT
TACTTATAAGTGGGAGCTGTATGATGAGAACACATGGGCACATGGGGGAACAACACACTGGGCCTGTGGGGGTGGG
GTGGCTTGTGGAGGGGAGAGTATCAGGAATAATAGGTAATGTATACTGGGCTTAATACCTAGGTGGTGGGATGATCTG
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GCCAAGGAATAACTAAATTCCCTTTACGGTTTCAAAGTTAGAACCTATTTTTCTCTTAAGATTATGGAATTGATTATCC
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AAGCTATTTTGAACCTAAAATTCCTATCAGAAGGTTGAAAAAAAACCTAATTTTACTTTTATTTAGAGCTTGTGTGCTA
ATTATTTGATTTTTAAAATTTCCGACTCCACTTGGAATGAAGCACAATCCAGTAGTTAATATTAAAGTATGAACTTTCA
ATTGTTTCCTTTCTTCCTTTTTTTTTGAGATAAGAATCCCTCAAAAGAATAAGTGAAACAGAGACTTCAAAGTTCCGTGG
TGACTGTTGAAATATAACAGAATCGCACTGTGTTTGAATTTACTGTGATATATTTCTAATGTCTTATATTTGGTATGTT
TCTCTTGTTGTTATTGCTGACACAAACCAAAGAACAAGAATTTCTTTTATGCCACTGATTTGCAAAGGTCGTATAGAAA
ATGAAGGGTCAGATAATGGATGTTAATCATCCTCATTGATGGATACATTGACAGGAAAACATAATTGAATTGCACATAT
TAGTGGAAGATAAAAAACCATTTCACAAATCGTTCTTAGTAGAGAAAAAAATGATAGGAGAGCTAAAATTGATGTGAAA

Fig. 6.70

AACACAGAAGGAAGTTAAGGGATTAGAGTGGGAGGGAAATTAGTGAATATCTATTTGTGTGCATGATTGCATTTTTGAA
ATAATTAGTTGCCTAATTTGTGTATCCAAATATAGTAATTGTTTTTCCATAGTCATGACTTAAATATTCTCTGTGTGTA
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TATAACCCATTTTGGAAAGAGTAGAAAGATTTTTTTTCTCTTCCAAATGGCTATGAAGGTGGATAACTTCTCTGATCTT
TTAGTAAACACTTTTATGTTAGTTGAATGGTATGCAGTTAGTCATAAACAGGAGAGATTGAGGAAAAATAACATGCTTA
ATGCAAATAAATTTTCTGTACCTGATAAGTTAATTGGAATTTTTTCCTGTAATCTTTTTTTTTTTTATTTTTCTGGTAG
ATGCTTGTTGATTTAAGGTAAGATAGAAAAGAATCATCAAACTATATGTAAACCACAGCCAAATGATGAATTCATAGTT
TTTGCTCAAGTAGAGGGATTATCTGAAAGTACAAAAAGAATTTGATAATTGAGAAATACATTATTTTGAATGCACATTT
GAAGTAGCTAAAAATTCTACGCCACAGCTGAATGCACTGGCAGTTTGTTAATCACATCCATAAACATGAGTCTTCTACA
ATTGGAGTGGGCCCCACACTTGGAACATCTTGAAGATGTTTCTTCTTTGGCTGTGCTAAATTAAGCATGCAAAGAAGTT
ATATTGTGTTAACATTTCCACAATGAAATCTTATTGGCACTTCCTGTATAAGTGGCTGGGAATAGAAATTCTCATTTAT
GAATCAAAACACTTTGCCTTTTTATTTGGAGGTCAACCTACTAACCTTTGGTTATAGGATAATACCAGCAATTTTATTA
TAAAGTGTATTTCAGTAATTGGAACTGTGTTTTGATTATACAATTGGATAGAATGTATAATAAAATGAAATGAAAGAAA
TTTCTCCCAGAAGATTGAGTTAAAAATGTTTTGGTGATGAAATTGAGATGATGTCCAGATTTATAGCATGTTTGGTAAC
CATAACATACTTCTCGATATATTGAATTCCATGTAAATGCTTATTTCTTCAAACCCTTTAAATTTCAGAGTATTTTCTC
TTTCATTACTTTATATTTCTGTTTTTGCCTAGGCTCCTTGTTACCAGCCTGTTCTAATGTCACAAAACTTGGCAAACCC
TACCCAAGAAGGGTAAGGTTTAGTATCTATGAATTTTGAAAATACTTGATGAGAAAAGTTGCTTTTAAATTATTTTGAA
TCTTATTAATACCAAAAATATTTGAAAAAGAGAAGCAGGTACATTTTTCCAATATTCAAATTTCATTCAATGTATAAAT
CATGTGCCATGGTGGTTTGCTGCACCCATCAACCCATCATCTACATTAGGTATTTCTCCTAATGCCATCCCTCCCCTTG
CCCCCCACCTCCCGACAGGCCCTGGTGTGTGATGTTCCCCTCCCTGTGCCCATATGTTCTCACTGTTCAACTCCCACTT
ATGAGTGAGAACATGTGGTGTTTGGTTTTCTGTTCCTGTATTAGTTTGCTGAGAATGATGGTTTCCAGCTTCATCCATG
TCCCTGCAAAGGACATGAACTCATTCTTTTTTATGGTGGCGTAGTATTCCATGGTATATGTGCCACATTTTCTTTATCC
AGTCTAATATTGATGGGCATTTGGGTTGGTTCTAAATCTTTGCTGTTGTGAAAGTGCTGCAATAAACATATACGTGCA
TGTGTCTTTTGCAATAGCATGAGGGAAGGAGATTGGAAAACATTGACTCATTGTACAATTTAAATACGCCAACTTTGTC
AACTTTTATTACAACTGGAAAGCACTTATGGTACTTATTAGAAAGAAAGTGTGTGTGGATACGTATGTGTGTAAAAATA
TGGCTCTTCTTAAAAGGAGGCTTACCCAGTCATTTTTTTTTGAATAATAGCTGCATTGGAGGTAAGAAGGTACCTCAAG
ACATTTCTCTAATTGTGCAGGAAAAAACAAATAAAGGAGATGAAGACTAGGCTGCTGTCATTCTGTGCCATCTCTGAC
ATCTATGGAAAGCCTAGAGGCCCAAGAATACTTCCTCCCCAGGGTGCTATTGCAGTATCTTCAGGGTCCTGAGTCTGAA
TGTTCCTATTTTATGTAAGCATTGTACCCAGAAGAATGGGTCAGAACCTCTCCTATGGTCTGAATGTTTGTGTCCCTCC
AAAATTCATATGTTGAAGTCCTCACCTCCAAGGTGATTGTATTAGGAGTTGAGGCCTCTAGGGGGTGTTTAGGTGATCC
TCATGAATAGGACTGGTGCTCTTATAAAAGAGGCCCTAGGGATCTCCGTTAACTCTTCCACCATGTGAGGACACCGTGA
GAAGGTGCCATCTATGATGAAGCTGGCCCTTATTAGACATCAAATTCTCTGGTTCCTTGATCTTGGACTTCCCAGTCTA
CAGAATGTGAGAAATAAATTACTGTTGTTTATAAGCCATTGTGTTTGTGGCATTTTGTTTATGGCAGCCCAGGTGGACT
AAGACAGCCTTTTAATAGGCAAGGGGATCTAAAGACATAGGTGAACCAAGCAAGTCAGTCTGCAGCTCAGAAAACTCAA
GTCCCCATTCAGGCAGCTGCCTGATGATGTTAGCTGTAATCTCCTGTGTTTGTGCCTGACTTGCTGCCTCAGTTTAGCT
CAGTGGTTCTCAACTGGGGGCAACTTTGACCATAGGGACATTAGGCAACGTCTGGAGACATTGTCACAGCTAGAGGAAG
GGTGCTACTGCCATCTAGTTGGTAGAAGCCAGGGTTGCTGCTAAACATCCTGCAGTGCACGGGACAGCACCTCCTCCCA
TCCCAGCAAGGAGTCATCTGTAGGAATATTTGATAAAAGCCATCTACATAAAAGCCCAACAGCTCACATCATAATTAAA
GATGAAAGACTGCTTTTCCCATAAGATTGGGAACAAGGTAGTAATGACTGTTCTCAAATCTCTATTCAACATTTTACTG
AAGGTCTTAGCAACAGTGCAAGAAGAATAATTAAAACTCATACAATTTGCAAAGCAAGAAGTAAAGCAGCTTTTATTCA
CGTATGACATAAACGATACTTAAATAACCATAAGGAATAGCTTCCATAAAGGGGACTTGAACCAATAAGTGAGTTTAG
AAAGGTCTCAGTATCTCAGTCAATACAAATTTAATCATGTTTATAAATACAATGGACAATTAAAACTAAATATTTAAAC
ATTTCATTTCTTATAATGCCAGAAAATAGAAAATACTTAGTAGCAAATTTAATGAAATATGTGCACAATTCTTATACTG
AAAACTATAATTTACCAAGATAAATTTAAGAAGACTTCAATAAATGGAGAGATATACTTTGCTCATTGATCAGAAGACT
CAATAACAATTTAGGATATTAATTTTTCCTGAATTAATCTATATATTCAAATTTATCTTAATCTTCATCACAATGGCTT
TTATTTTATAGGAATTGACAAGCTTATTCTAAAATTTATATGGGAGAGTAAAGAAGGTAGAATAGTCAGAATAATCTTG
TGAGGTTTTGACATAAGGATAGACAAATAAATGAAGGAAATAAAAGAGTCCAGAAATAGACACACATTTATAAAGTAAA
TTGATTTTTTTCAAGACACCAAAGCAATTAAATAAAGGAATGGAGAGGCTTATTTATAAATGAAATTGGAATAAATTGA
TATCCATATGGGAAAAAATAAATTTTCACTCCCTAAATTCACACCTCAGACAAAAATCAATTCAAGATGGATTGGAGA
CCTAAAAGCAAAGGTAAAACTCTGATACTTCAAGAACAGAACATGACAGGATTCAGAAAATTATAACCCTCAAAATTGG
TAAATTAGACTGCTCATCAAAAGACATACGTAAATGAGTAAGAGAGCCACTAACAGGACAAAAATATTTGTAAAACATA
AAAATGGGCAAAGCATTTCAAGGGACACTTTACAAAAGTAAATATACAAATGGCCAATGAACACAGTAAAGAGTGCTCC
ACATCTTTAGGCTTCAGCTAAATGCATTTACAACCACAAAGAAATACCACCACACATCCACTAGAAAGGACAAAATTAA
AAAGGTTGAAAACACCAAATACTGGTGAGGAGTTAGAACCACTGAACTCTTACACTTGTTGATAGGAAAATTAAATGTT
GTAACTACTTTGAAAAATGTTTTGCAGATAATAAAATGTTACTTTCACCTACCCTTTGACCTAGCAATTCCACTCCTAT
TGTTTACCCAGAAGCAAATTTTATGTTACACATAAAAAATTATATCATACATAAATACTTGTTAAAATATTCATAAACC

Fig. 6.71

CACATATTCATAAACCCACATATTAATCAAAAGAGAATCAATAAACAAATTTTGTCACAGTTATACAATGGAGTATTAC
TCCGCAACAAAAATGAATGAACTACTGATACCTGCAACAAAATGAGTGACTCTCACAGACAAAATGCTGAGTCAAGGAA
TCGAGACAAAAAGGAATACATGTGGTATGATTCCATTTCTAGGAAGTTCTAGAACAAAACTTAGGTTAGAAAAAGGGAA
AAAGGTTAGCCTCTGAAAGGGAAGACTGACCAGAGAGATGAGAGAACTTTCTAGGGAGATGGAAATGTTCTGTATCATA
AGGATGTGGGTTACATCTTTTTTTTGTTTGTTTGTTTGTTTGAGACAGAGTCTCGCTCTGTTACCCAGGCTGGAGTGC
AGTGGCGCCGTCTCTGCTCACTGCAACCTCCGCCTCTCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTG
GGACTATAGGCGTGTGCCACCATGCTAGGCGAATTTTTTGTATTTTTAGTAGAGATGGGGTTTCACCGTGTTAGCCAGG
ATGGTCTTGATCTCCTGACCTTGTGATCGCCTCCCAAAATGCTGGGATTACAGGCATGAGTGCCCGGCCGCGTTACATC
TTTTTAAGTATTTTAAGTAAATTGGTAGTCAGTGTTCAGGAATCCTTCTAATGACTCTTCAACAGGGGTGGCTTATGAA
ATAGTTCATCAATTTTTTTTTCTGATAAGGGGAGGTTGAGGCAGGAGGATTGCTTGAACTTGGGGGGGCAGAGGTTTCA
GTGAGCCGAGATCATAACACTTCACTCTAGCGTGGGTGAAAGAGTGAAACTGTCTCAAAAAAAAAGGGGGGAATTTAC
ACTCTTGAAAATAAATATTTCATAAGGAAACTTTAGAGTTCTCCAATATACATGATCAAACAAGGACCTGTTACCATTT
TGGACCATGTCATAATAGAGAGGAGATAGTTCAAAATTAGTCATATGTTCCAACAACAACATGATTATGGAAACTAGTC
TTAGAATTGAGAGTAATTGAAGTTTTTGTTTTTACTGGTATTAATAAATGGTATTACTCAATTCGTTGACAGTACCAGT
CTCTGCAATATCTTTTGTTGGGGAAGGGGGAGAGGACCTGTTCGTCTAATTAGAAACACATCTACATTTTAAGAATAAA
ATATTTTACATATACTTTTTGTTATTAAATCTGCAAACTCTAGAATTGGAAGAAATAGCCTTCATAACTCTTCACTGCA
AAAGTTATGAATGTTTGATAGAATTAATTAAAGCATTCAGTAGAATTAGACTTGTTTGGAAGGACTGTAGGATCTTTGG
CAAGAAGTGTGTTTTATATTGTTTCAGATGTATACCATTTTCTCTTAAGGTTTACAAGTTAATCAATAAAGATTCTTGG
CAGAGCTAAGTACAAAAGAACAATATGTATTTCGCATACCAAATGGATCTAAGTCTTAAGTGTTATTTGATGTCTCGAA
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CTGTGGATTCTCTCATAATCCTCAGTTATTGTAAACCATACTTAGTGAGACCAAAAGGATATTTGTTTTGGCTGCATG
GTATTATTGGAAAACGGTAAAAATTTTATTCTTTAAATAATGTGTTTTTCTATTCAGAAAAATAATGTCTATAGAGATA
GTTATTTCAAAATGTAGTTTTCAATATGCACTTGTGGGTATGAACATGAACAAACACATGCAGACACAGAGTCTGAC
GTTATATCTAGAATGTTGAATCCTACTTTTCTACTTAACAGGAATGTTTCCCTATGTAACGAAAAGTCTGTATAATGT
GTCTCTATTATGTGTATTATATGAATTATATATCCTAATTTACTTAACCATTCTTTTATTGTATTGGTCATTTTCCCAT
ATTGCATACAAATTATTAGGGAACATCTGTGTGCAAACATTTTTATTTACATTTTGGATTATTTACTTAGAATAGATTC
CCGGAAGTGAAACTACCAGGTCAAAGGCTTTTCCCAATTTATTTTTCAAAAAGAAATTCCCACTGTATTCTATACAAGT
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TTTTAAATTGAATTCTTTGACATTTTTATTATTTTGTTCAAAGAACCCTATGGGCAAGTGGAATCTTACACTTTTATTA
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TGCTCATTAAAGATGTTGCTCTTTGGATAAACAGGAAACCCAGAAAAAGATTCTAACAATTTTTGATGCTACCTCACA
TTCCTTCGAGACAGTGCAGAACATTTCGTTCTTTAGAAAATATTCAGGTCTCTTTCTTTGTGTTACAGCACTTACTATT
TGTCTATTTGTATTATTGGCTTGTGACCCTTTTTTGGGGGGTTACAAATACACTAGGGGAAAGAGTATTTTTAAAAATC
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CTGATTGCCTAGGCTGCAGTGCAGTGGTGCAATCACAGCTCACTGCAGCCTCCATTTCCCCAAGCTCAGGTGATTCTCC
CACCTCAGCCTCCTGAGTAGCTGGGACCACAGGTGTGCGCCACCATGCACAGCTAACTTTTTGTATTTTTAGTGGAAAT
GGGATTTCACTATGTTGCCCAGGCTGGTCTCAAACTCCTAAGCTCAAGCAATCTGCCCACCTCGGCCTCCTAAAGTGCT
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CAATCTCCATTCTGTTATGATTTATAATCATTTACTTCTCAGATGATTCCTCCTTTAGTGCTTTGTGCCTTCTGTTATA
TTCTTATTACTTTTGATCTTTTATTGTTCTAATTTCACCTCTTCTCAACCCATCCCCACACTGGCAACTGTTATATGAA
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TACTTACACATATGAGTACCAACCTCTGTGATGCAGCAATCATATCTTGACATATCTAGAAAGTTTCATCCTCATCC
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CACATTTAATTATAGTTTCAAAAATTTGCATTCTTGGATGAAACTTTTTCTCTTGTCCCACTCTTGCCATAATTGCTAC
ATTGTCTACTGTTAATTTGCATTTTAACTGAGCTTTAAACATTTAACCAGAGGATGGTCCAATCGGAGATTCTATAACC
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AGTTGATAACCTTCAAAACAGACTCTTTACTTTGGGGCTGTGATGAGAGAAACAGAACAGAAGTTAGGAATGGTGAAAT
TAGAAGAGACAGATGGTGAGAGATTATCATGATTTATAGGATCACCCAAATTGTCTAAAATTTACTCCAGAACTTTTTA
CCAGTTAGGGCAAAATGTCATGCTTATTTTGAGCTCCTATAGATACATTTAAATCAGACATACTGGACTTTGCATTCTG
TTATTTTTTTGAGGGGGGTGATATTTAAGGAGTTCTAGAAACAGCCTACATTAGACTTAGTGTTTCCAGCAACTAACAA
ATTTAAATGTTATAAACATTTTTCTAACGCATTTTTCCTTTAAACCACTCTGGGGAAAGACATGAATGTAAGATGACTGA

Fig. 6.72

78/375

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TTCTCAGATTATCTGCTTTTAGAACAACCTTCTTTTAGCTGCAAAAACGTAGTGACGGTGTTCTCAATGTGAGACGGGG
AAGATTTTAGTGGGCACAGCAGCTGTTGACTCAAATATAGTTATACATGTTCCTTCTGTGTTTTCTTGTAGGTGAATCA
GCAGTTTAGTTTATTATGAAAATTAGCAATCTATAAGATGATTCTGAAAAATGAATTCTCAGAAATTTAAGGTACACAC
ATGGCATGATTTGGTGAATATGAAGTGCTGAAGTGAAATACTCATATCCCATTGTGATCATTGATGTTCTTGTTGCAAT
TATGGTCATCATGTCAAGAACAAAATCAATTTGATGCGATTGAAAATAACAAAAATGCTTTATGTCTTTTAGAGAAAAT
ATAAATGATTCATTGTAAATGAGAAACCTCAAACTGAAAGCACATAAAATACCAGGTATGAGTGTTGCATTTTGAAGTC
TCTGACTACATGAGAGTTGTCTGTGAAATAAAATATCCAGTTACACAAAATATTCTTTATAGTTAAAAAACTTTTTTTC
ATACATATCACTAGTTAACTATTTTTAGTCCCATCTTTCCTATGTGCCCAGCAGTGAGCTAAAAGCTGTGCATTTAATG
CATTCTTCATTGTATTTTTGTTTTGTTTTATTTTGTTATTTGTAAAGATGGGAAAGACCAAATGAAAAGATGTCAAACT
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GCAGAGGTTTGGTGGTCACAGCTAGAAGCTGACCACCACCATGGGGCAAATAATGATTTAACCTCCTCCTGTAAGTATT
TGATGTAAGATCATCGGTATATTTCATCTGTGACATTATCCAAGAAGAAGATGAATCTGAGGGAAACAATGCTTGCAGA
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CATAGCTTTTCTTCTTAGGGTAGAAGTCTTCCTCTGCTAACCTTTGATTTTTTTGAAATTTCATTTTTTTAATTCTTCA
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GTTGTAATGGGGAGCATTAGGCAGGTTTTTTTTTTGTTTGTTCTTTTCTAAATAATCAGGACTTTACACAAAGTTACAA
GCTCAATAAGCAACAGCCGAATCCTTATTCTACATATTTTTCAGCAGAGTGCCTTATCAGACACTATGTCCTCTCTAAA
GTCTGCACACCAATGTCTATGACATTCTAGACAGCTATTCTTTAGTACACCTTTGTACTTCAGGTCCCCTTTGTGGCGG
TGCATGTTTGCCAGGAATCCAAAATCTGTTAATGACTGTTGTACTTGCTATTATATTATATCATATAATTATTATGTAG
ACTGATGTAACATATAAGTAAAGAGAAGTGTTTATGTGAAAACTAAATAGAATGCTAGTAAATTTGCTAAAAAAATTAC
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AATCTAACTAAGAGATTCAAACTCAAAGCAAAGGCCTTGGCTCTACATCAAAAGAGTAGCCAACTATGTGCATTTAAGT
GTTGCCATTTATAAAGAATACTTGAGGTATTATTTCTGAAGATTCTTGACTTTAATATATTCATTTAACAAACTGGCCA
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TTGCCTTAGTTGTCCTGGAGAAATATCATCGGGGCCTCTTTTCTGTGATGCAGCTCATGGCAGAGTACACCACTGTCAT
CCTAAACTTTTAGCTAAAAGCAGATAACACACTTCTTTTTCATATAATGCATTTGTATCTGAATTAGGACTTTAGTGTT
ACGGTTAAGACCTACAGGCATTGATTACTTTGGGGTGAAGTCTGGTGACCAAAGACAGTGTTCCTAAAAAGTGCAACTT
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Fig. 6.173

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CCTGGGAGTTTCCACACCTAGCTAGGAGATTGTCTCAGGGACTTTTTACCCAGAAGATAACTCTATTATTGGTAGGCTT
AATAATAGCAGAAATACAGGCTACCTTATTTTCATGATTATGCATTTTTAACATTAATTTTTAATTTCCTTGAGATCAG
GTAATAGAAACATTAATAGCTCTCTATACTACCAGGCATAGTTACCTAAAACAAGGTGAGTGCTAAATAGGTGTAAAAA
TAATGATCAAGCTCCCAAAGTGTACTATTTAGTTATTTTGCATGACAATTTTAACAGAAATTTGTCTCCTATCACAAAT
TATTTTAATGTTGAGATGTGACCACACTGTATTCATCTTTCCGTTCACTGTGCTACCTAGTGTGGATGATTCTGCG
TTTTTCCCAGTAGTGAGCTTGACTCTGTGCATAGGAAATACACGCAGTCCTCATGTGCCTTTCCCTTTTCTGCAGATGG
TAGTTCATGAGCCTCCCTCAAATATAACAGCAGCTCATAGGTGAATTTATCAAAGAGTATGGCCACCTTGGGAGACCTG
GCACATTTTACAGGCCCTGCTGTGATATAGAACAATCAACTCAATTTTTTATGTGTTCTTTCCATTATTGTAACTCCC
ATGAGGTAAAGTGTTAAGCTACATTAAGCCTCATTAAGAGAAATTTGAGTTCATGATGCATATGTAACTTCGCAGTAAT
TGTAATTAGTACAATCTGCTTCTTGAATTTGCTAACATATTTGGGAAAAATGTTACCATTTTTTATTTCTTTTAAAACA
TTTAATGCCAAAAACTTTTCAGTAGAGCATTTAGTACCTCTCACAAAATTTCATAAGTGGCTTTGATTGTGTGCAGAAT
TACATCAAATGATTAGGAGCAGACAGTTCATGAAACTAAGAACATAATTTACAACATTTGTAACAAAAAAGTATACTTT
GAGTCTCAAAGTATGAGTAAAACCTGAAATTGAATTTTTTGAAGTCAACTATCTCCTATATATTAACCAAAATTTATGA
AAAAATATCTATGACAAAATAAGACAAAAGATGGGCAATACTTCTAATAGAAGAGGGAGATAATGCATTAGGAAGCACT
CATAATTATAGTCAGAAATTTTACCACCCCTCTCAGTAATTGGTAGAGTAAGTAGACAGAAAATCAGTAAAGATATAGA
AACTTGAAAAAACAATCAAATAACTGCATCAACATTTTAGAACACTCCACCCAACAGCAGAATATACATTCTTTTC
AAATGTGCATGAAATATTTACCAGTATAAAGTATATTTTAGACCATAAAATATATCTCAGTACATTTAAAAAGATTTCG
GACTATGTTCTCAAACTACAGTGGAATTAAGTTATAAATCAGTAGCAGAAAGATGCCTGGGAAGTCCCCAGATATCTGG
ACACTAAATATCATGCTTCCAAATAACTCATATGTAGTGGATTGAACTGCAGCCTCCAAAAGCATATGCCTATGTCTTA
AATAATCCTGGATTATCCAGCTGGGCCCCAAACCCAACAAAACGTGTCTTTATAAAAGAAGAAGACAAGAGGACATAG
ATACAGAGAACATAGTAATAACAAATTTTATTTGTTTCATTTGAAATCAACAAATTTTTAATGATGATGGACTCCATGT
GGTTTCTAAGCTGGAGCTTCTCATTATTTCTATGAAAGCCACTTAGAGGAAAAAGAATGTTTTCACTGTCACTGAAACC
TTGGGATCTTCATATTAGACCAAATTAAACAAGTTACCACAGGACTTCCAACCTACAATATGCTAATGCACTCTTCAAT
CTTCATTGATCAAATGTAGCATATTCCAGATTTTTTTTTACCGTATAATCCTTTTTTCCCTGAATAGTCTTGCCTGACA
AATAGAGCTCATTTTGAGAAATATATATATATATATATATATATATATATATGTTTATTTCTCTCTTGTTCTTTAAAGATT
AATTTCTGTATCACATGAATTTCTGTATCACAGAATCCTTTTAGATTCTGTACACTAGGAATGATAATGACTTACTTGT
TTTATATGTTGAGTAATGTTGTTTAAAACGATGTTATTTCTATTGAAATAGAGTATCTCTCATTTTTTTTTTCCTTTTTT
CCTGTTGGCCAGTCTGGAGTGCAGTGCTACAATCACAGCTCACTGTAGACTCAACCTCCCAGACTCAAGTGATCCTCCC
ACCTCAGCCTCCTGGGTAGCTGGGACTACAGGCATGCATCAACAGGACTGGCTAATTTTGTACGTTTTTTGTAGAGACAG
GGTTTTGCTCTTGCCCAGGCTGGTCTCAAATTCCTGTGCTCAAGCCATCTGCCTGCCTCAGGGAGGCAATCCCAAAGTG
TTGGGATTACAGGATTGAGCCACCATGCTCGGCCCCCTTCTTTTCTTATTCTTACTTTTTCTATTATTTTTCACTTCTTT
TACTAAGTTTATTATTAACTAAGTAAGTTAATAATTAACATTTCTTTTGCTTAATTTTTAAAAAAAGGGTTGGTCATGT
TAAAACTGTCCTGAATAAGATCTACTATCTATTGAAATAAATTCTTGTTCCTTTCATAAATTTATTATCATTTAGAATA
ATTCTTTGTAAAGATTTCATAGATTTCAGCCATCGTAGTTGGTATACTACAGAAATGACAGTGGGGAGAGACAGGAATA
AAGTTAAAGTAGTGTGGATATAGAATCAGTACATTTAGTGACTTTTTAGGAATGGCAAATAAAGGATTATTGTAATTTC
TGTTTTGGTTTCCTTGGAGGTTAATATTTCCTACTGAAATAGGGAAATCTGAAGGAAGAGCAAATTTCCACAGGAACGA
CAAGAAGTTTGATTTTGGATTTGTGTGGTTTTGAGGTACTTTCTTGTACGTTTGGAGAAAGTATCTAACAGGGAATTCT
GCTACTGAAACAAAGTAGAGTGAGAGGGAGGGGTAGACTTAGCTCCCCTGACCTTGTATGTATGGAGAAAGTATCTAAC
AGCGAAGTCTGCTACTGAAACAAAGTAGAGAGAGAGGGAGGGGTAGACTTAGCTCCCCCTGACCTTGTATGTATCTCTT
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TGTCAGCAGGCAGTGTGTTTCACATGTTAAGTTCAGTAATGGTGAACTTAATGTCCTCTGCTATATTGACCTCCAAAGC
CTTAGAGATTTGTGGCCTAAGAATTACACCAGATAGATTTTTATCTCAGCCCTTATTTTAGATAATAAACATATTTTTA
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TGCTTAGCTCTCACAATGATGCTATTTACTGATGAAGAGTTAAGTAACTTCTCAAGGCCCATGATGCATCCTGTTTTCA
GGCATCAGGTGCTGAGGGTTTGTTCCAGCAGCCTCTGACATCTGGTTATATGAACCTGAGGCCACGAAGTGTAGCTCTC
CCTGCCTCAGATTATATCTATAACTTTGGCTTGTACTTGTTCCTGGTTTGTTTCTTACTCTCTTGTTTTATTTAAGCTA
CCTATTAAAGAATTGAGACTTCCAGGAAGATGGAGTATACATAGCTTTCCCTATTCCTCCTGCTAAATACAACTAAAAA
TCTTGGATATTTTATATATATGTGTGTATATATATTTATATATATATATGTATGTATATAGAGGAATACTCTGAAATAT
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TCAATCAATTTAGATTCCTTACTCTAGGAATGATAATGACTTACTTGTTGCATATGTTGAGTAATGTTGTTTAAAACGA
TGTTATTTATATAGAAATAGAGTATCTCTCCTTTTTTTCTTTTTCCTTTTTGAGACAGGGCCTTGTTCTGTTGCCCAGCCT
GGAGTGCCCTGGGTTTTCTTTTTTTTCTCATATATACCAGACTTGGAGCTTAAGAAATCAACAACATGGGCTGAGTGTGG
TGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCATCAGGTCAGGAGTTCAAGAATAGCCTGG
CCAATATAGTGAAACCCCATCTCTACTAAAAACACAAAAAATTAGCCAGGCATCGTGGCAGTGTCTGTAGTCCCAGCTA
CTCAGGAGGCTGAGGCAGAACCATGTGAACCCGGGAGGTCGAGGATGCAGTGAGCCCAGATCATGCCATTACACTCCAG
CCCAGGGGATAGTGTGAGACTCTGTCTCAAGAAAAAAAAAAAAAAAAAGAAATCAACAACACAAAAATACCAATGCATTAC
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Fig. 6.75

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ATGGTAAGCAAAAACATTCTTAACAAAAGCATGCTTTCTATAATTAAAGGACCAGAGAGGGTCAACCTAACAAGACAAA
ACTTTTAGATAATAACCACCATATTCCAGGTAAATAACAGAAAAAGCATTGTGGACCCAGTCACATCTATACCTGCAAA
AGCCATGTCGGGAGCTTAGGTTTTTACTTTTTTGAGATTCTGATGAAGTACCCCAATGTCCACACTGGGATAGTGTCAG
AAAAGGCAAGGAGGGAACCAGGAGTTTTATCATCACTGAGCTCCATTTCTATTCTCAGTGTCAGTGGAGACCACATGGT
AATTCTGGACTTCCAAAGCCATCTGGAAGTAATAGGGTGCTCTTTCTTCTCCTGACTGGGCTGGTGTCCGTGGAGGCCT
AGACAATATTCAGGACCTTCACCACTGCCCTATGATAACAAGGCCACCCTCATTACAGTGTTCCAACTGGGAGTTGGAA
CTCCTAGAATTCTCACCTTCACCCAGCAGTAATAAGGAGCCTCTTCCTAAGATGCTGAATGGGGAATCTGGGCTTTGCA
TCCATGTGGAAATCATGAGGCAGTACCACCTGCCCCTTCACCTGCCAGAGAAGTGTCAGAGAAAGCCAATTAAAACAGA
AGATTTAAATAAGAAATGGCATCTCTTAACATAATTTAAAAATGAACAGGTTTTAATAAATTATTCTTATACCAAGAAC
TAGATCTCAAAATGAAGGAAAATTGCAATTAATAGATACCAACACTGAGATGACAGAGGTGTTAGAGTTATTTGACAAC
AGTTTTAAAATAGTCATGATAAAAACGCTTCAATGAGCAAATCTGAACACCTTTAGAATGAATGAAAAGTAGAGAACC
TGAACAAGGAAAGAGAAGCCCTCAGCAAAGAAATAAAAGAGAAAAAGATGAGCCACGTGGAGTTTTAGAACTGAAAAAT
ACAATAACTAAAAGAAAAAGCTTAGTGGATGGGCAGAATACAGGAGATAAAAAAATAATAAAATGGAAGACAGAAATTA
CCTAGCCTAAACAACAGAAAAAAATAAATGGGAAAAACAAAACAAAACAAAACAAGAGCCTAATGGGCCCATGTAATT
ATAACAAAGATCTAGCATTCATGTCATCAGAGTACAGAAAGAGACGAGAAAGAGGGATGGGATGAAAAACTACTTGAA
GAAGTAATGGTCCCAAACTTCCCAAATTTGGTAAAACACATAAACCTGAGTGAACCATAAACAGGATAAACCCAAAGAA
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CCATAGACTTTCCTTCTCCTGAGTTTTCTAAATTATGTTTGATGGTTGACAAAAATTATAACATTTTCTGGTGTGGTTC
TAAGTGTATGTAGAGAAAATATTTAAGGGAATTATAAGTGTGGAGGGTTAAAGGGACGTTCAAAGAGGTAAGGTTTCTA
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CTACTAAAAAAGTTGTACAAACAAAAAGTAAAAACAGTAGAGTTAAGCCCTAGCATACCAATTATTGCAGTAGCTGTAAA
TAGTCCAAATGCACCAATTAAAAAACAGATTGTTACCTTTTTTTGTGGTAAGAAGACATAAAATCTATTCTCTTAGCAA
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TAACTGCATTATGCTATGGTACACAGGATGGTTTCCTTGATTTCTTGTTTGGATAGATCATTATTGGTGTAAAGAAATG
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Fig. 6.75

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<div align="center">Fig. 6.76</div>

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GACTCGGGGCTCAGCTTGGCAGGAGGTGTGATGTCTCAGAGCAAGTACAGCATTTTTTGAAGGAGCAAGGTGTTAATGG
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AATCATTCTCTGCTCTGCCACTGTGTCAGGTTAAGGCTTGGAATTAAGGTTCCAAGAGAGGTAAAAGGTAAAACCAAGA
GCTCATCAGACAGCCTGACCACAAATTTCCCTCTCCATTGTGCTCCTGTGGGTGAGGTCTCCTAGCCAAATGACTTTCC
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Fig. 6.77

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TTATCTTGAGGACCAGGCCCAGTATCTGCTTATCCCTGAGGAGTGGGTTTTGGTTCCCTCACAGCCTGTGGAATTATTC
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TCCAGTCTTCCTTCATTTTTATGTCTTCCCATAGGGTAGACAAAATTCCAGTAAACAATAAAATGATCAAAATATGAGA
AAAATAAGGAGAATGAGAGACAGTCTCTGGGTGGCATATAAACAGGATGGCCATCCTCTGACTCACAGGCTGTCTTGTA
AGGTTGGCAATGACTTTGAAATTTTATCAAGTCTATCTCTTTTCCTTTTGGCAAGACTATTCTTATACCTTTCCCAGTA
GATGTTAATCTATCCTGTTTTTAAATGAAACTTCTAGTACAGAAGACACATGGTCCCTTAGGAACTCATTGTGAAATTA
GAGGGTTTTCAGAGAAGGACTCTGTTGTTTATTTTGATTGTTCATCTTCTCCATAGGGATGATCAACTTTATATAAACA
```

Fig. 6.78

GCGCTGCATCCATGTAAAGTCATTTTACATGGCACTTGAGCAGATTGACAGATATTTAGAGAACATGACCGCCTTAGGG
AACAATTAGTTCAGTCCCTTAATTGTGACTGGTTGGTCTTCTCTCTTCCAGATTGAGATTATAAGTTTCTTTTATTATA
AATTCATGTTGTGTTGTTGACTTATATTCACTTTAGACCTTCATATTTTTTGCCTACTCTTTGCATTGCTAGTATTCCC
CTGCTCTGTGTTAAAATATGCTGGTTCTGTCAGTTAATATCCAAAATATGTGATTTTTTTAAAAAAATAAAAAGTGTGAC
AGGGTCTATGATGTATAGGACATAGGATTAGCATGGATATGACTCAGTATCCTGGGCTCCAACCATGATTCTGTCACAG
CTACTGGTATGACTTTGGGCGGGTAATTTACTGAGCTCAGAGGCCTCTGAGCCTCAGTTTATCACTATCAGATGTGTGG
CCAGATTCAGAGCAGCTTTTTCCAATGGGTTTTTCCATGGGATGTTAACAGATATAACATGAAAAATGGTCCCATTTAAA
AATAGGTGGTGGTGGTTGGGAGGGGATGGGGAGGCAAAGATTAAATGAACCTAAATAGATTTCTTTGCTGAAGCATGTG
AGTCTTTCACATATTTTGGCTTAAAAAAAAAAGAATTGTAAATCTTCAGATCTTTAAGAGGCGTTTCCTGAAAGTATAC
AACTATAGTTCCTTTTTTTTTCTCTTTTTAATGCTTTAGTGCCGCTAACCCTTGACCAGGCTCATCTGCAAAGCAGAAG
TAGCCACTTTCCTTGGTGCCCATCCCAGAAATACAGTAAAACACCCAGGAGGTCACTCAGGGCTCTTGACTGTGGATGA
GTTTATGCATTCCACGTGTACCTTTCTGCATCATGAACTCTTTGAGGGCAGGAGCCTTTCCTTATTTGCCTTGTGTAAA
GAGGGTCTATTCCTGTGCTTATACCTGGAAGATGTGTAGAATGAGTCAAACTGTCCATAAGTGGAAGGCACTGCCTTGA
AAGTTTTCAGCTTCCCTATCACAGAAAATGTTATTATAGAGTGAATTTTTGAAATGAGTGGAAACTGTAGTCAAGATGA
TATCTATGATCAGGAATCTGTGAGTTTCTAAGGTTATAAAGATAACATAAGAATAAAATTACTCATAGATAACCACAGG
TAGGTTAAAAAAGGGCAGAGTACAGCTTTGCAGGTGGTTCTTACTGGCTTCTTTGGTCTCGATAAATTTGCCTAT
TACCTTGATTCTGTCTGATAATGTGAAATTATTAATTGGAGAAGTTTGTCCAGATTACCAATATATGAGGAATGGACAA
AATGCCACGACATTTTCTTCATCGTTCACCTTGTACAATGCCACTGTGTACATACAAATTCAATTCATTAAATTTATGA
TGAGTTTGTTTTTCTACTTTGCTGTTCCATTACCTGTTGTATTTCTTATAAGCTTCTGGAAAGCATAAAATATGTCTTA
TATACATTTATTTCTCCATTGATACCTAGTGTTTATAATTATAGGAAGAACTCAATAAATGTTGAAAAATAAAAAGAT
GACTATAGTGGCTCAGACATTTTTTCCAATTTAGCATCTGAAGATAGAGATAGTAAATATGATGAGCTTATATGTAGCA
GAAATTAATGTTTTGAAAGTAGGGGAAAAAACCCTATCATTTCACTACCAAAGAATAGCCATTGTTAAGACTTCAGGTT
ATTTCTCTCTAGACATATTTCCTGCAAAGATAATTTTTATGTATAGTTGTAATCATATTGTATATATAATTTTGTGTCC
TGATTTTTTTCATTTGAAACATGTTATAGAAAGTGTTTATGATAGTTATATTTGCTCTTTTGTATATAGGAAATATTT
TTACAATAAAATTTTTAAAATCATAGAAGTCTTAAGTAATATAGTTTTCACTAACAGAATTTTTAATTGTTTCTGCATG
GTTTCCTTAAACATTTATTATTTTATTATTATGTTTCTTATGAGGTTTTGCCTTCATTATTTATTTATTTATATGCAAG
AGCTGGAGTAGACATTTTTAAACAGGAATATTTTTATATTTTTCCTTTTGAATATTTTCAAAGCATCAAACACTTATTG
GCAAACTGCTTTTCAAAAGTATGTGTCAATATTTGCTATATCAAACAATGTATGAACATTCCAAATTCATTGCAAGTTC
ACCAGCAAAGAACATTTTTTTTACTTTTTAAAAATATTGACTGATTTTAATGGGAAAATGCTTTATTATTTTGTTTAATT
TCTGAGGGTATTTTTTGGTCTTATTACTGAGGTCAAATCTTTTCTCATACTTGTCATTTTTGTTCTTTTGTGAATGGTC
CATTTATGTCTTTCTATTTATTTTTCTTATTGAATTGTATGAATGCTTCATTCCATAAAACATGCTATTTCCTGCAGGG
ACTGTATATTCACACACCACTGCATTGCTGATGCCCAAGGATAGTGTATGAAACAGGGTAAAATCACCATCGGCAGGCA
GCTGGAGTAGCTTGTTCTGTGGACTGTTTTGCAATGCAATAATGAGGAGGGAGCTGAGTTACTAAACAGTCCCCTCTTT
CTGTTAGTTCATTATTGCAAAGCAAGGCCTGGCGAGTGAGGTGTGTGTGGCAGGCTTCATTCTTCCCTTTGTCTCAAC
TATTATTAGATAGGTCCAGAAATTGCTGGTACGTTGGGGCTGTGGGCACATTTGGTTTATGTTGCTTTCCTAGATGTTA
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TGAGAATCAACCTCATTTTAGGAGAGGGGACAGATTGTGTCTGTACTTGGCATCCTTCTGCAGACATCCTTCTGCAGCT
GGGATTGCTTGAGACACTTCACAGAGTTGAGGGACTCATATTGACAGAGAAATGTCCATTTTGTCTGAGGAGCTGCTGAA
TCTGTCAGCATCTACTGGCAGAAGTGCTTTCTCTAGCATGACTTCACCTCTCAAATCCCTGGATGTAACAAAAGTCAAT
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TTTTTTGTCTTGCATGAAATACTTGAAAATAGTTCAGATATCGCCGCTGCCACAAAAATTGTCCTATAGCAAAGAAAT
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TGTTGTGTTTTCTTTTTTTCTCTTTCTCTCTTTCTTTTCTTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTCTTTCTT
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TAATTCTTTTTGGCCATCTTTTCTGTGTGAATTTTATTTTTTATTTTAAAAATAGCTTTATTGAGATATCCTTGACATATA
CAAATTGTATATATTTAAAGTGTACAACTTGATGTTTTATTTTTATTTTAAAAATAGCTTTATTGAGATATCCTTGACATATA
TAACATATCTATCACTTCTACATAGTTACCATGTGGGTGCTCTATGTATTTATTATGAAATGATTACATTCCAGCTAAT
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ATACATTCTTCCCAAGAAGCAAACCCATTCTTGTTGTCAGTGGAGGCTTTACTTCTTTCGACATTTGCCTCCTCAATT
TTCTTCTTCAGTTCTGTCTCCTCCACATGATGTCAGCTCACATATTCAAAATATGTTGCCTTACAAATCCTCTTGGGTA
TGTCTATGTATTATTTCCTTAAGGTAGGACTAATTTTACATTCTTTATGTTTTCCAGTGTGTTGACTAGAAATTTTTTT
TATGCAATGTGTTTCTAATAAATGCAGTTGTTTGATTCTCTTTCGTTCTAAAACATTCATGAGATTCAAATTGTGATCA
ATAAAATAAAATAGATTGTGATTATATTTTTTGTTTGTCCCTTAATCTCTTTAAATAAATAAGTGGTTTCACAAAATTTTC
TTTTAAAGATATTTAAAACCTCTGATGAGGCCATGCTTAAAAATAATTAAACCCATTATAAAGTAGTGGTACTGATGG
TGATGTTTGAAGTAATATCTTTGAGTTTGGGGATTATGTGATTTTGGAACTCTGCATGTAGACCAACTTCTGGCAACAG
TTTGGAATAGAGAGGACAACTTTGGCCACCTGGAGCAACAGCAAAATCTGATGGTGATAACTCTCAAGAGAGTCCATAT
`AATACTGAAATTGTGAGCTCTTTCTTTGACAACAAATGTGTCCAGGGAGATGATGAGCTTGTTAAACATCAAGGTTATA

Fig. 6.79

ATTCAAATGACACCATCAAGTTGAAGAAATGTAAAAAGATATACAGACACAATGTTTGAGGAATCATTTGCCAGTGTTA
CATTGGAAAATATGTTGCATAGTGTTTTCTTAAGCTTATTCCTTTGTTGTTGTTGTTGTTGTTGTGGAGATAGAGT
CTCACTATGTTTCCCAGGCTGGTCTCAAACTCCTGGAGCTAAGTGATCTTCCCACCTTGGATTAAAGGTGTGAGCCACT
GCACCTGGCCATACTTACTTTTGAGTAGTTGGTGATAATGATGATGTTGATAGAGAGTAATTAAGTATGAATGAGTTAT
TTACTTCTTATAACAATATACTATGTTATACTTATGTCCATTTATAAATGGGAAAATTGAGGCTCATAGAGAAGATGTG
AGTTGCCCTAGGTTATATAGCTAGTAAGCTGCAGTTAGGATTTGAACCCACTTCTCACTGAGTCCAAAGACCAATATTT
TGAGATACTGAAAAGTTTTTTAGGATATAATAAATGAGTCATGAATAGTTACTGTGACATATAAAAGAGGGATTCCTTG
TGTATTCTGAGAAGTTCCAATGAGTTAGTAGTGTTGGTCAAGTCGCCTCTTGGTATAATGTTAACATTTCTGGTTAAAC
CCTGAACTCTGCAGCCATCAAGAAATTATAGCCCAAGAACAAAGGGATCATAGGTAGTCTCCCACATAGTGATGTCTGT
CCTTTGACAAACATCAGTGTCTTCACTTTGACAATGGTACGTTTTCTTTTGCTTATCATCCCTGGTTAAATCTTTTTCT
AATCTCAGCTGAATGGGTTGAACAATGATAGTCATTTTCATCCCTTGATATGAAGAGATGGTTACTAAACTCAAAGCAA
GAAAAAGTGTAAATATGACACTTCTGAGCCGGGGAAGCAAAGTGTAAACTGAGGCAGCAGTATTCTTCTTTATGAAGTA
TTTAAGCCATGATGCTATTTTTCAGTGTATTTGCTATGAGAATGAGAGTACTTGCTAATGAACACTCTCATTGTATATT
AATAGCTGTATTAATTGAGCATTTATTATATGCCAGGTACAGCACTTAGGGCTAACTGCATGCTTTCTCATTTAATTTT
TACAATGACCTTATGATGTATATACCATTAATATTCTCATGTCATAGATTAGCAACCTGAGGCACAGAAAGGGTAAATC
ACTTTCTAAGATTACACATTTTATTACTGGCTTAATCAGATGATGTCTAAGTATCATGATGACATAGTCTGCGCTATTA
ACAACTCTCTCCTGCTTTTTGCACTTTAAGCATTCTACATGATTTTTACACACGATTTTGCTCATGGTTTACCTAGATG
ATTTTGAAACTCAATCAAGTTATGGCTACAGGATTATATGAAGGGACACCATAAAAACCCTGTCTATTAATTGCTGTTG
GCTTTGCTTTAGCAGAAGACACATTGGATTGGGCATCAGGGCAAATGGATTCTGGCAAAAGATATGCTCTTGGAACCAC
TTCTTTCAGCTATTAAGTGGAATGAATAATGCTTCACTTGCTTAAAGGCAGGGGCTGGACAAGATAGCATCTTTGACTG
AATATGAACAGAACAACGTATTTCTAATTGTGTTCTTTAGGGGCCAGGGTTGCTGGCATAAGCATGAATTGAGCATCTT
AAAAGGTGTCATGAAACCATGAAGGAAAGAAATCTCTTGCCTCTTGGTATAATGTGAACATCTCTGATTGAACCCTGGA
CTCTGCAGCCAACAAGGGACTACAGCCCAAGAACAAAGGGATCATAAGTAGTCTCCCACATAGCAATGCCTCTCCTTTG
GCATAGAAAGAAGAGGTATATCTAAGATACTCTCTTCTAAGTACCAAGGTTGATTGATGATTCTTTTCAGAAACAAGAA
ACTTTCTTAAAGTATAATATGTTGATGGCTTTGTTGAGTTAGCAATTTATCACACCACATAGTTCTGTGGGTAATTTAT
CATTGAATCAGGTTCCCTTTACTCTGTCCCAATATTATAGGTTAATCTGGGACATGTAGTTTCTGAAATACCGACAGTC
CCATTTGAATTATTATTTTAGAAGCTGTGAAGACATTTAGCTCCTTTTGATTTCATACTCTTGACTTTAGTACTCATT
GTAGACATGAGAAGTATGTGGCATTGTGTGAGCATCTGTAAAGATTGTAAATGATATTAATTAAGTTGGCTGTGCTTTT
TCTCCTCACAATGGATTCTTTTGTTAGGCTGGTAATAATCGCGTTTTTGGTAAAAACACCTCATGGAATTTTTTTCCTT
TCTCATAAAATAGCTGTTTACTGTAAAATTGAGATAGCCTCTCAAGTCTGGTAAAACACCTTTCAATTCATCAAAAAGGGAC
AACCTAATATTCCAAAGAAGACTCAATCCTTTTAACACACATACATTTTAGGGCCAGTCAAGAGAAGTGGCCTGTTCTG
TAGGAAAACATTTCTTGGCACATTATTATTTTAAGTGATTGCAGGAGACCACAGAGGGAGAGAAAAGAGACAACAACAA
AAACGCATTTACTCAGATTCTCTAGGGCAAGGTGCAAAGAGCCTGTGCTGTAGGAGCTCAGATCAAAAATTAAATGGTT
GAAACCTGCAGAGCAACTGCCGTCAGCAGAACCGTGGGCTCCTTCTGGTTGATTTTGTGCCATTCAGTTAGTTTCCATA
AATTGGCCTTGGGTACTGATGTTCTTTGGTCTTTTTTGTGCTGTCCATAACTAATAGTGACCGTTGCTGGTAAATTGTT
TCTTCAGTCCAGTGATTATTGGCCTTTCAAAGCATTGACTTCCTCCACCAATGTATACAGTCACCAAATGGGATCTGGT
TTGTTCAACATTCTAGTCAAGTTCCAAGTGGTAGGAATCAAAATTCCACTCTAGTTTATGTGTATTATTCCTATAGCTC
TTCCCTCGAGATGTGGCATGGGATGGAAAATGGAGCCTATGTGTGGTATAGGCACTACTTAAAATTTATCAATAGAGAG
GGATCCATGAGGAGGAGGAAACAAGCCAAAGAGATTGGGCAGGCTAATTTTCTTCTAGACAGTTCCTGCTCTCTTGGAT
TTTACTCCAATTCCCCACTCTTTCCATAGGAGTAAAAGTCTTAAAACTTGAACTAATGTTGAATTTTAATCCTGAATGG
TGTAGCATCCTTCATTTCTATCCGTCTCATTATCAGCCCATACCCCTGCCATTGCCACTACCATATTTTCAAATGTCTT
TCAACTCTCCAAAACCTACTGACCCTAGTTTATCATGCATTTGAAAGGCTCCCCACTTTTTGTAGAACTTCAGGTATTT
TAAAACATATTTAGAAAGACTCTAAATAAACTGGAGTGAGTCTATAGCTAATGTTTGACCAAAAAAAAAAAAAAAAAGTA
AAAAAGTGTGCTGTGAAATTTTGAATATTAATTGTGCCAATTGGAATGGCATTTTTAAAAAGAAACTATTTCATCCATA
AATGATAAATATATATTTCTTTGTTTAAAAAGTACATTAATGCAAAATTCTCCACCCCCATGTATTTTTAGCTTACATA
TCCATCTAACCTAAATACAGTCATGCATCACTTAATGAGAGGCATACAATCTGAGAAATATATCATTAGGCAATTTTGT
CATTGTGCAAACATTGTAGAGTGTACTTAGATACACCTGGGTGGTATAGCTTAGTATACACCTAGGTTATATGGTATAT
ATTTTTGTATCTAAGCATATGTAAACACAGAAAAAGCACAGTAAAAATACAAATAAAAGAGGAAAAAAGTGACCTCT
GTATAGGACACTTACCTACATGAATGAAGCTTGCAGGAGTAGAAGCTGCTCTGAGTGAGTGAGTGGTGAATGAATATAAAGG
CCCAGAACATTACTATACACTACTATAGACTTTATAAACACTGTACACTTAACGGTACACTAAATTTACAAAAATATCT
TTTTTACCATTCGGCCCAGCCAATCCTATTACTGAGTATATACCCAAAGGAATATAAATCATTCTATTATATCATAAAGA
CACAGGTAGTCATATGTTCATTGTAGCACTATTCATAATAGCAAAGATATGGAATCAACCTAAATGCCCATCGATAATA
GTAGATTGGATAAATAAAAAGTGGTACATATACACCATGGAATACTATGCAGCCATACAAAAGAATGAGATCATGTCCT
TTGCGGGAATATAGATGGAGCTGGAAGCCATTATCCTTAACAAACTAATGCAGAAACGGAAAACCAAATACTGCATGTT
CTCACTTACAAGTGGGAGCTAAATGATGAGAACACATGGACTCATAGAGGAGAACAACAAACACTGGGGCCGACTAGAA
GATGGACAGTGGGAAGGGGGAGAGGGATCAGGAAAATAACCAGCAGGTACCAGGCTTAATGCCTGGTGATGAAATAATCT
GTACACCAAACCCCCATGACATGAGTCTACTTATATAACAAACCTGCACATGTACCCCTAAACTTAAAAGTTAAGAAAA

Fig. 6.80

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TTTCTTTCTTCAATAAAAAATTAATAGCTAATTTTTATCTTTAACAATTTTGACTCCTGTAATAACACTACTTAAAACG
TAAAGCACCATATAGCTGTACAAAAATATTTCCTTTCTCTTTCCTTTCTCTGTATCCTTATTATATAAGCTTCTTATTA
AAAAATGTCTAGTTATCTCTTTTATTTTTTGAACTTTTTTCTTAACAACTAAGATACAAATACACATATTAGTCTAGGC
CTACATAGAGTCAGTATCAACAATATCACTGTCTTTCACCTTCATACCCTGTCTTACTGAAGATTTTCAGGGGCAATAA
CATGCAAGGAGCTGCCATCGTCTCTGATGACCATGCCTTCTTATGGAATACCTCTTGATATGCCTACCTGAGGCTGTTT
TACAGTTAACTATTTTTTTAATAAGTAGAAGGACCACACTCTAAAGTAATGATAAAAAGTATAGTAAACACATAAATTA
GTAACCATTATTTGTTATTGTTTATCATGTATTATGTAGTACACATAATTGTGTGTGCTCTAATTTATATGAATGACAGC
ACAGTAGGTTTTTTATGCCAACATTGCTACAAACATATAAGTACTGCTTTCCATTATGACATTACTATGCCTATGGTAT
ATTAATAACTAGGCTATAGGAATTTTTCAGCTTCGTTATAATCTAATGGGACCACTGTAGTATGTGGTCCATTGTTGAC
CTAAATGTCATTATATGGCACATGATTACTTGAAAATAATCAAAGTTATCAGATAGAGAAGGCTTAGGGATGCAGAA
CCATCTTTACAAGTTTTTGCTGCTTTGAGACAAATCCAACCCCGACTATTACCAGCTTAGAGACACCTCCTAGCTGCCT
CTAGAGATGTATATCATCTTTGATCAGGGACTGGGGACCTAAAACAGGAACAATAGCATAGCATGCTTTTATGTGCAAT
GAATTTTCAAATATTAAAAAAAACCTTCAATATTGTTGTTATATTATCTGCACAGTATTAGGAAAAATGAGTAATAACT
TATAAGTGAAAAAATACCTATGCTGCAAAAAACTCTTTTAATGTTGACTCCAGTTTCAGCAGAATAAATTTGTCTGATG
ATAGCCCCAGTGTCTACAGAAAATATACATTTTCTATTACTGGGGTTACAGTGTATGTAGAAGCACTGTGAGAAACCTT
GACATTTTGGCAGAAAAGGATTTTTAACAATAAAATTCAAGAAAAGGTCATATTAGTAGAAATTTTGGTAGTCATTTTA
AATGTCTCCCACATTATATGGCATCATAAATGCATTTAATATCAGATTGAATTATGGCTGTAATCTTTAGCCTTAGTAG
TCTGAACATCATTTCATACCTAGCTTAATATCCTGGAATGTTATGTGTGGTTTCTGCTTTATTTAAAATAGAGGAGTGA
CAAGGGTGATGAATACATTTTATTTCTGTTTTCTCATCCCATTTTCTATTGCAAATGAATTTTTTTTTCAGAAGTAGGTA
TGCCTACCTGTATCTTTGCAAAATGCATTTTCAGAAAATAGGTTTGGAATATTCATTTAAATCCTATTTCTTGTGACCC
AATGTAAACTCACTGCTGTTAAATCTAAAGTGTGTGAGTTCTTACAGCTGAGCAGTAATTCTACTGACATTTTAATGTC
ATGTCCTCTCCTTAGCAGCCTGTTTGCATATTGCATGCAGGCTACATGTTAGGATTTTTTAAAAACATGAGGTGTCTTGG
AAAATGATTTTGACACAACTTGTCCTCTTGGACCAACTGTATTTTATAAACATTTTAATGCTTTACTCTTGAATGATCC
ATTTCACTAAGAGTCAGAAAACTGAGTTTCTGTCATGCCATGGTGACATGATGCTGACATTGCTGAGCTAGTTACTTAT
TCCTTTTACCTAAATGTTTAATAGAACACACCCAGCCCTGTGTGGGCATGAGAGGGAAATGGGCCCAGAAGTTGCAGTG
GTTGCATTCACAAGCCATTAAGCTGTGGTCAGTTTCTCCCTAAAGCATTGTACCTCCCTTAGACAACTTCCTCTTTGGG
GAGTTGCAATATCTAGAAACTTCAGAGGAAGGGGTCCAGCTGCAGGGATATGGTTAAAAGTTTTTTCAGAGGAGCCACT
TTGCATGGCAGTGGGCCATTTCCTGCTATCACTCAGGCCCAGCCTACCCACAAGTTACAGTCTTTGGCAAGAAACAGAA
GGAAACAGTGGTGGCTCTTGGAGCCACATGCTCAATTTTTGATGGTGCTCTTTGCGCAGTGAATGCCAGCTGCTCCTCA
ATCAGGTATGCTGCTGTTGTTCTGAGAGTGATTAGGAACAAAAGGGATGATGCAGATGTGTCAGGCTATGGGAAGTGCA
AATGTATATTTTTGGAGCACTGAATGTAAAGAGATTTAGAAGTTTCCTGTTGGAAAGCAGGCTATCGAAGCAGGCAGGC
AAAATGATTTTGACACCAATACCAACCAAGGGCAAGAAGTGGAAGCTTGGAAATATACTTGTTTGGGAATAAGAAATTG
ATAAGACAAATATACTTTTTAAAAAGAAAGATAAGAGAGGTCATGAAAGAATTGTGAAGGTCCAGTCTGTCCTATTTCC
TTTGCTACCACCTGAGTCTGTTACCATGGTCTCACTCTTGCATGAAAGCAGTCATCTCCTACCTAAGCCCCTTCTGTTC
ATCTTGCTCCTTGGAGGCTGGCCTCCACATCCTTGAAAATACAAGTCTGATTTTGCCTCTCCTCTGCCCAAACCTGCCA
ACAGCTTCCCAACTCATGAGGAGTGAGATCAAATGTCTTGCCATGGCTGACATGGCATTCTTGGGCCTGGCCCTGACCT
GCCATCCCTCCTCAGGGCCTTTCCACCTTCATTTCTGATTAGAATATTCTTCCCCCAGATATCCGTATTACACACTTTC
TCACTCCATTATCATCTGTTCAAATAGCACTTAAAAAGAGAGGTTCTGTGGCCATGCTATCTAAAATAGCACACTCACA
TGCACCCATGACTTTCTCTCCACTTACCCTATCTTCTTCACAGCACGTAGCACCACCTGTCATATTCTATCAAGTTGAA
CCATATGAAATTGCTTTTGGGTGGATCAAGAACAGCTGAATATTGGCCATTTCATTTGGTTCAAACTAAAATATATTTA
TTAATTTGTTTATTATTTGTATTTCTTCTATACTATGATTGAAACCCTGTGGGTCAAAGGTTTTGTTTTGTTTTTGGCA
ACATCTCCAATGTCTAGAGCACAGCAGGAACTTAGACAAGTTGTATTGAATTAATGGAAAGGAAGAAGAAAAGCCATAT
AACTTGTTGACAGTAAGCAGTGAACACTTATATGAAAAATGATCTCTCTCCCTTTCTCTGTCTCTGTCTTGTGTGTGTG
TGTGAGAGGGGAGAGGAGAGAGAGAGGAAGCACTAGAGGACTCTAGAAAAAGGTGATGGGATGGGCTTCAGAGGGAAT
CCAGAAAATTAAAGGATTTATTTGGATCCATGTAAAGTTCAGTGTAATGTTTCTAGTTGTAGCTAGGGGCTATGTATGC
.ACCTATAATTATTATATATTTTTTTCCATGTGGTTTTCTGAAACTGGGACCAAGTGGGATCAAACAAGCTTTGGATAAT
ATAATTGTGAACTGAAAAAGTTTCATAATTGGTAAATTACAAGGATTCAGCTTGCCAATTGTGCTGTAAGTTGATTTTT
ACTAGAGAAAATAAGTTACTTTTTACTAACAGTTCTAGAAACATGGCTAATAATCTTACTATCATCCCTGCTACGGATG
CTTAGAAATACTGCATGTCTAATCTTGAAAGGAAATAAAATCATTACTATGGGTCAGAAGTAAAGGTTGAATTGAAAAC
TCCAGGGATAAACACTTGAATTGATACTGTGGCTGCCTTTGGGACAGTATTATTAGTCTCACTAACAAAGGGCTTGAGA
TATGAAATGGAAAATTGAGGTTCTGTGGGTTGGAACAGAGATCTTCAGTACAAAGTTGTGACCTTGGAATGGAAAGGAC
TGAAAAAAATCATCAGAACAGAAGAGACAAGAGCTGTGTCTTAGAAAAGAATGTCTCCTTCAAAAACACATCTCT
ATGGATTTGTACCTCATTTAGGTTTGGGAATTGAATTTGTACTACTTGTGTAGTATGGAAAAATCACAACTTGAAAAAT
TAACTACAGAGAGCCCAGATTACTGATACTTCTAAAGCACCTGGCAGAATCTGTTACAAACTTCTTAGGAGAAAGATAC
CATTCAACCAAGTTTCACAAGATTCCTAAACATAAAATATCTTCTAAAGATTAACTCACAACCTCAAACTATAAAACATA
AGAACAAAATCCCCCACAAGTGAGAGTTAGCAAACACAAAGAGCAGGATTAGAATAAGACCTAAAAGTGATGGAACTAT
CACATAGACTATGAAAAATGAATATTGAAAATGATAGAACATAAATGAATTATAAATATAAGAAAAAATAAGGTTAAA
GCTGGAGAGAAAATTAGTAGACTGTAATATAATTTGAAGAAATCAACCAGAAGGCACTGAAAAGAAAATGATAGAAGAT

Fig. 6.81

ATGAAAAAGAAGTTAAGAGACATGTTGGAGAGCATAAGAGATTCAATATATGTTTCATAGGCCTTCTAGAAGGAGAGCACA
GGAAGATTTGGGAAGAGGCAGTATCTGACTATAATGCAATTAAATTAATAATTTAAATTAAAAGACAACAAAAAGAATC
CCACATGGATTTGAAATTAAATCAACACACGTCTAAACAACTCATGAGTCAAGCAAAAAAATAATGAAAATTAGAAAAT
ATTTAAAACTGAATGTTAATATTAATTAAAATTCATCCATTAAATATTGTATGAGAAGCAATGAAAGTTATAGTTAGAAA
GTTATAGCTTTAAATGCCTATATAAGAAAATGAAAAAAGGTACAAATTAAAAAAAAATTAACTTTTAATTTTTTTGGCTA
CATAGTAGATGTATATATTTATGGGGTACATGAGATATTTTGTACAGGCATGGGGTACAGGCATGCAATGTATCATAAT
CACATGGGGTGTAAATGGGGTGTCTGTCACCTCAAGCATTTATTTTTTGTGTTACAAACAATCCAATTATACTCTTTTA
GTTATTTAAAACTGTACAATTGAATTATTTTTGACTATAGTCACCCTGTTGGGCTAGCAAACCTTAGGTCTTATTCATT
CTTTCTATTTTTTTTGTACTCATTAACCATCCCCACTTCCCTCCCTCCCTCCACTACCCTTACAAGCCTATGGTAACCAT
CCCTTTACCATCTATCTCCATGAGTTCAATTGTTTTAATTTTTAGCTCCCACAAATAAGTGAAAACATGCAAAGTTTGT
CTTTCTGTGTCTGGCTTATTTAACTTAACACAATGACCTCTAGTTCCATCCACACTGTTGTAAATAACAGAATCTCATT
CTTTTTAATGGTTTAATAATACTCCATTTTGTATATGTAACCCGTTTTCTTTATCCATTAATCTGCTAATGGATTGCTA
CCAATTCCTGGCTATTGTGACTAGTGCTACAATAAACACGGGAGTGTAGATATCTCTTTGATATACTGATTTCCTTTCT
TTTGGGTATATACCTAGGAGTGGGATTGCTGGGTCATATGGTAGTGCTATTTTTAATTTTTTGAGGAACCTCCAAACTG
TTCTCCACAGTGGTTGTACTAATTTACATTCCCACCAACAGCATACAAGGGTTCCATTTTCTTCACATCCTCGCCAGCA
TTTGTTGTTGCCTGTCTTTTGGATAAAAGCCATTTTAATGAGAGTGAGATGATATCTCATTGTAGTTTTGATATGCATT
TCTCAATGATGTTGAGCACCTTTTCATATATCTGTTTTCCATTTGTATGTCTTCTTTTGAGAATTTTTTACTCAACTCT
TTCACCCATTTTTAAATTAGATTATTAGATTTAATAGTGTTGTTTGTGCTCCTTATATGTTCTGGTTATTAATCCCTTA
TCAGATGGATAGTTTGCAAATATTTTCTCCCATTCTGTGGGTTTTCTCTTTGCTTTGTTGACTGTTTCCTTTACTGTGC
AGAAGCTTTTTAACTTGATGTGATCTCATTTGTCCACTTCTGTTTTGGTTGCCTGTGCTTGTGGAGCATTACTCAAGAA
ATTTTTGCCCAGTCCAGTGTCCTGGAGAGTTTCCCCAATGTTTTCTTTCAGTAGTTTCATAGTTTGAGGTCTTAGATTT
AAGTCTTTCATCCATTTGGTTTTGTATATGGTGAGAGATAGGGATTGGGTTTCACTCTTTTGCATATGGATATCCAGT
TTTTCCAGCACCATTTATAGAAGAAATCATCCTTTCCCTAATGTATGTTCTTGGCATTGTTGTTGAAAATGAGTTCCCT
GTAGATGTACGGATTTATTTCTAGGTTCTGTATTCTATTCCACTGGTCTATGTGTCTGCCTTTATGCCAATACCATGCT
GTTTTTGTTACTATAGCTCTATAGTATAATTTGGAAGTCAGGTAATGTGATTCCTCCAGTTTTGTTCCTTTTGATTAGG
ATAGATTTGGCTATTCTGGGCATTTTGTGATTCCATATAAATTTTAGGATTTTTTTTCTATTTCTGTAAAGAATGTCAT
CAGTATTTTGATAGGGAGTGCATTGAATCTGTAGATTGCTTTGGATAGTATGGACATTTTAACAATATTCATTCTTCCA
GTCCATGAACATGGGATATCGTTCCATCTTTTTGTGTCCTCTTCAATTTCTTGCACCAGTGTTTTATAGTTTTCATTGT
AGAAATCTTTCACTTTTTTGGTTAATTTCTAGGTATTTATTTAATTTGTAGCTATCATAAATGGTACTACTTTCTTGA
TTTCTTTTTCAGATTGTTCACTCTTGGCATTTAGAAATGCTACTAATTTTTCTATATTGATTTTGTATCCTGTAAATTT
ACTGAATTTGCTTACCAGTTCTAATATTTTTTTGAGAGAGTCTTTAGGTTTTTCCAAATATGAGATCATATCATCTGCA
AACAAGGGTAATTTGACTCCTTCCTTTCTAATTCGGATACCCTGTGTTTTTTTCTCTTGTCTTACTGATCTAGCTAGGA
CTTTCAGTACCATGCTGAGTAACAGTGGTAAAAATGGGCTTCCTTATCATGTTCCTGATCTTAGAGAAAAGGCTTTCAG
TGTTTCTTCCTTTAGTGTGATACTAGGTATATGTCTTTTGTATATGGCTTTATTGTGTTGAGGTATGTTCCTTCTATAC
ATAGGTTTTTGAGGATTTTTACCATAAAGGGATGTGAAATTTTATCAAATGCTTTTTCAGCATCAATTGAAATGGTTTT
TGTTCTTCATTCTGTTGATATGATCTATCACATTGATTGAGTTGCACATGTTGAACTATCCTTGCTTCCCTGGGATAAA
CCCCACTTGGTCATGAGGAATTATATTTTTAATGTGTTGTTGAATTTGGTTTGTTAGTATTTTGTTGAGGATTTTTGTA
TCAATATTCATCAGTGATATTGGCCTGCAGTTTTCTTTTCTTGATGTGTCTTTGTCTGGTTTTGGTATCAGGGTAATAC
TGGCATCGTAGAATGAGTTTGGAAGTATTTCCTCCTCTATTTTTCAAAATAGTAACATTGTTATTAGTTCTTCTTTAAA
TGCCTGGTAGAATTCAGCAGTGAAGCCATCAGGTACACAGCCTTTCTTTACTGCGAGATTTCTTTATTATAGTTTTGAT
CTTGTTGCTTATTATTGGTCTGTTCAGGGTTTGGATTTGTTCCTGGTTCAGCCATTGTAGGTTGTATGTGTCTAGGAAT
TTGTTCATTTATTCCAGATTTTTTAATTTACTGGGATTTAGTTGCTCATAGTAGCCACTAACGATCCTTTGAATTTCTA
CAGTCTCAGTTGTAATGTCTCCCTTTTCATCTCTATTTTATTTATTTGTGTCTTCTCTCTTTTTTCTTAATCTGGCTAA
AGGTTAATCTATTTTGTCTTTTCAAGAAGCAAACTTTTTAATGGATCTTTTGTATTTTCCTTGTTTCAATTTCATTTAT
TTCTGCTCTGAACTTTATTATTTTTTCTTCTACTAGTTTTGGGTTGGTTTGCTCTTGCTTTCCTTTCCTAGTTCTTTA
AGACACACTATTGGGTTTTTTTATTTGAAGTTTTAATTCTTTTTTGATGTGGGCACTTAAAACTATAAGTTTCCCTTTT
AGTACTGCTTTTGCTGTATCCCATAGGTTTTGGTATGTTGTGTTTCCATTATCATTTGTTTCAAGAAATTTTATAATTT
CCCTCTTAATTTCTTCATGACCCGTTGGTCATTCAGGAGCATATTGTTTAATTTCTATGTGTCTGTTTAGTTTCCAAAA
TTCCTCTTGTTTTAATTTCTAGTTTTCTTCCATTGTGGTTGGAGGAGATAGTTGATATTATTTCAAATTTTTTGAATGT
TTTAAAACTTGTTTTGTGACCTAACATGTGGTCTGTCCTTGAGAATGATCCATGTGCTGAGGAAAAGAATGTGTATTCT
GTGTATTCTGCAGCCATTGGATGAAATGTCCTGTAAATATCTATCGGGATCATTTGGTCTATAGTGCATATTAAGTCTG
ATGTTTCTTTGTTGATTTTCTATATGGGAGATCTGTCCTATGACGAAAGTGGGCTGTTGAACTCTCCAGCTGTTATTTT
CCTGAGGTCTGTTTCTTTATCTCTAATAATATTTGCTTTTTATATCTGGGTGCTCCAATATTGGTTACACCTATTTATA
ATTGTTATACCCTCTTCCTGAATTGAACCTTTTATCTTTATTATAATGACCTTCTTTTTCTTTTCTTACAGTTTTTGTGT
TGAAGTCTATTTTGTCTAAGTATAGCTACTCCTGCTCTCTTTTTGTTTCCATTGGCATGGAATATCTTTTTCCACCCTTTT
AGTTTCAGTCTGTGTGTGTTTATAGGTGAAGTGTGTTTATTATAGGCAATGTATGTTTGAAGGATATTAGCACCAGATA
TACTATTCTAGGGTAAAAGTTTTTTCTTTATGCCCTGTAAATGTGTCATGTCACTCTCTCCTGGTCTTTAAGGTTTCAC
TGAAAGTCTGCTGACAGACATATTGGAGCTCCATTGTGTTATGTGTTTCTTTTCTCTTGCTGCTTTTAGGATTATTTC
AATTTTCTTATACTTGGATATTGATACTCTTTTCTAGGTTTGGGAAGTTCTTTGTTATGATCCCTTTGAATAAACTTTC

Fig. 6.82

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TACCTCCTCTTCATGGCCAATAACTCTAAGATCTGCCCTTTTGAGGCTATTTTCTAGATCTTGTAGGCATGCTTTATTC
TTTTTATTTTGTCTTCTCTGCCTGTGTATTTGCAAATAGCCTGTCTTCTAGCTCACTAATTTTTTCTTCTGCTGGATC
AATTCTGCTATTAAGAGACTCCAGCTGGGCACAGCACTTTGGGAGGCCAAGGCGGACAGATCACCTGAGTTCAGGAGTT
TGAGACCAGCCTGGCCAACATGGTGAAACCACGTCTCTACTAAAAATACAAAAATTAGCCAAGTGTGGTGGCGTGTGCC
TGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCTGGAGGCAGAGGTGGCAGTGAGCTGAGATC
ACACCACTACCCTCCAGCCTGGGTGACAGAGTAAGACTGCATCTGAAAAAAAAAAAAAAAAAAAAAGAGAGAGAGAGA
GAGACTCTGATGTATTCTTCAGTATATCAATTGCATTTTTCAACTCCAGAATTTCTATTTGATTCTTGTTAATTATTTC
AATCTTTTTGTGAAATTTATCTGATATTATTCTAAATTCCTTCTTTGTATTATCTTGAATTTCTTTGGGTTGACTCAAA
ACAGTTATTTTGAATTCTCTGTCTGAAAGGTCACATATATCTGTTTCCCAGGTTTGGTTTCTCATGCCTTAATTAGATT
GTTTGGTGAGGTCATGTTTTGCTGGATGGTCTTAATGCTCGTTGATGTTTGTCAGTGTCTGGACATTGAAGAGTTAGGT
ATTGTCATCTTCACAGTCTGGGATTCTTCATACCCATTCTTCTTGGGAAGACTTTCCAGGTATTCAAAAGTACTTGGGT
ATTATGATCTAAGCCATATCTGCATCGGGGGTACCACAAACCTAGTAATGCTGTGGTTCTTGCAGAATCATAGAGGTAC
TGCCTTGGTATTCTTGCATAAGATCCAGAAGAATCATCTGGATTACCAGGGAGAGATTATTGTTCTCTTCCGTTACTTT
CTCCCAAACACAGAATCTCTCTCTATGTTGAGCTAACCACCTAGGGCTAGGGGTGGGGTGACAGAAGCGTGCCTGTTGC
ACTGAGACTGCGTTGGGTCAGACTTGAAGCCAGCATAGCACTGGGTCTTGTCCAAGGCCTGCTGTAACCACTATCTGGC
AAGGCCCTAGATACCTGGCCGTACTTAAGGTACTGTTCACTTAAGGCCCAAGGACTCTTCAGTCAGCTTGTGGTGAATG
CAGCCAAGTCTGAGACTCATCCCTTCTGGCTCAGGGCAGGTCCAGAAATGCCATTCAAGAGTCAAGCCTTGGAACTGGG
GACCCCAAGAGTCTGCTTGTTGCCCTAACCCACCATAGCTGAGCTGGTACCTGATTTTTGGTTCTTCTGAAGGTGTGAT
TTTTGCCTAGATAGTTGTTACATTTGGTGTTCCTGTGGGGTGGGGGACAATCAGTGGGGCCTTCTATTCCACCATCTT
GCTCCCAAAGGAGTAAATATTATTAATAATAAGATCAGCATCCAATTCAAGAACTTAGAGAGTAGGCAAAGCAAATATA
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TAACATGGCATGTTTGAGTAAGGAAACCACTGGAAACATTACAGCTACTAGTATATTGGAAATAATCCCTGTACATCTG
GAACAAGAGAAGAATGACTTCGGGTTCTGCTTATGTTTAATTGGTTGTTCTAGCCAGCATTGTAGGTAAAAGAAATAAA
TAAAAGGTAGATAGAAAAGAGAGAAACCTAATTGTTATTAGTAAAGAGACTTCATTGAAAAAACTATTAGAAAATAATAC
AAAAGTTCAGGAAAATTGCTAGATATAAAGTAAACCACCTTTGTGTAACCCAGCAAAAGACAATTAGAAAATTCTGTAA
ACTACCTTTGTGTAACCCAGCAAAAGACAATTAGAAAAATTCAGTTTAAAAGCAGATACCATGAATACAGCAAAAATTAG
AAACATGTAGTAATAAATCTAACAAAGGATTTTTAGAAATCTTTACAAATAAAATTACAAAATTTTAAGGTAAGACACA
AAGAAGATGATAAATAGAAAGATATACTATACTTAAAGCAGAATGACTCAGTATCAGAAAGATTTCAATTCTTTCTGTA
TTCATTTATAAATTCTAATAAGAGCTCACACAAGAGTGGTTTTGTTGGTTGTTTTCAGGAACTTGACAATCTGATCAAT
CTGATTCCAAAATGTATACAAAGAGCTAAGCGTCAGTCATAACCAACACAATTTTGAAGAAGTCGGGGAAGATTAGCCCT
ACCACATGTCAACAGCTACTGTAAAAGTATAGTGATTAAGACATTGGGATATTGGAGCAGCAATAAATAAATATACTAG
GTTTAGAAATAGACTCATGTGTCCCTAAGGATGTATTACAAATCAGTGTGGTAAGGATACAATAAATGATGCTAGGAGA
TATAATTATTCACATGGGGAAATAAAATAATAAGTACCCTTTCTTACAACATATAATAATTAAATCCCATGTGGAATGT
AGGTGTAAAGGTGAAAGAATAGTAAAGATTTTATGTTTTTTAGAAGAAAATGTATGAAATATCTTTGTGGCCAGTGGG
CAGGGAAGGATTTCTTAAGACTAAAACCCATTTACGCCTAGTGTTCCATTATTGGAATGCTAAGCATGTGAGAGTTATT
TATTATCCTACTGCTCAAGATCATCGCCAAGGCCTGATTGCAAAAATTCAAAAAAATTGCAACCTCAGGCATAAGTGGG
TTAAAAGACAAACTATAAAGAAAAATAATAATAGGTTGAATATATTAAAACAAACATTTTTGAATAGCAAATAACACCA
ACAACATTTTTAAAAAACTTCAGAATAGGAGATATTTATAGTATATACAACCAACAAAAATTAATATGCATTTTGTATG
AAGGAATCTTTCAAATAAATATTTAAAAATTCAATCCAATGGAAAAATAGGTGAAAGATATGAACAAACAATCGACAGA
AAAAAATGGCTGATAAACACACAAATATTTGCTTTAGCTCACTAGTAATCAAGTAAATGCAAATTAAAAAAAGGAAAAT
TTTATTTCATACCAACCAGTTTTAAGAATTAAAGTGTGAAAGTGCCAAATAAGAATAAATTGGTAAAACCAATTGGAAA
AGTCAGTTTGACTTTACTTAGTAAAGTTAAACATTTGCATATCTTGAAGGAGGAATTCCACTTCTAGGCATATATCTAG
AAACATGATTGGATGTGTTTGCCAGGGGACATGCACAAGGATGTTTATTCTAGCATTATTTTGAAATAGCATGATACTC
AAAAATAAAATTCTGTATTTCTATCAACAGAAGAAAGTACAAATAAAAACTGGGATATTTGTGCAATGGACTTACAGCA
TAGTAGATGAAATGTATAAATTCCATGAGATACATTAACATGGGTAATGTTAATAAATTTAATAAACAACATAATAGCA
ACATAAATTTAAGCAAAAACAAAAACAACTTGCAGAGGGATTAATATTATTTGATGCCATTTCTAGGAAGTTTTAGGAC
ACCAATTGTAGGATTTTTCTGTGAAGGGAGGTAGGGAAGGAGGTAAATGGGCTCAGAGAGGGAAGGATACACTGGGCTT
TCAAATCTAACGGAATTGTTTGTTTTTTTCCCCAACATTTTATTTGATAATAATTAAAGATTCATAGGAAGTTGCAAAA
ATTGTACAGATATGTCCTGTGTACCATTCACCCAGTTTCCCCCAATGATTATGCCTTGCATTACTATAGTTATTATAGT
CATGAATTTGACATTGATCTCATGTGTTTGTGTAGCTCTATGTCATTTTGTTACATGTGTAGATTTGTGTAATCACCAC
TTCAATCAAGATTCAGAACAGCCCCAATCACTACAATGATCTCCCTTGTGCTATGCTTTTATAGTCACAGCCACACTCC
TTTGCCACCATATCTAATCCCTGGTAACCACCTAATATGTTCTTCATCTCTATAAAATATTGTCTTTTTGAGACTGTTA
TATAAATTAAACCATATAGTGTGACTTTTTGAAATTGGCTCTTTTTCTACACAGCATAATGTCTTTGATCCTTGAGATC
CTCCAAGCTGTTGTATGAATCTGTAATCCATTCCTTTTTATTGCTGAGTAGTATTCCATGATATGGATGTAACAGTTTT
TAAACTATTCACCTATTGTGGGACATTTTAGTCTTTTCAATTTTTGGCTACTACAAACAACTGCATATAAGTTTTGCTG
CGATCATAATTCTTTTTCTCTGGGATAAATGCTTCAGAGTGAATTATGGGGTCATATGGTAAATGCATATTTAGTTTTT
AAAGAAAATTAAAGCTATTTTCCAGAGTTTTCAAACTATTTTCCAGAGTTGCTGTACCATTTTATGGTACAGCCATATG
TTGTTGTTCCCTTAATGACATGTGAGAGATCCAGTTCTCTCCATCTTTGTAAGCATTTGGTATTGTCACTGTATTTTAT
TTTAGCAGTTCAAAGAGGTGTGTAGTGATGTCTTATCATAGTCTTAATTTGCATTTCTCTGATGGATAATGTACTAGTT
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Fig. 6. 83

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TTCTATTGATGCTGTAACAAATAACTGTAAACTTAGTGGCTTAAAACAACATAAACTTACGATTTTACAGTTCTGTAGG
TCAGAAGTCTAACACAGTTTTCACCAGACTGAAATCAAAGTGTTGGTATTCCTTTCTGCAGGTTGTAAGGGAGAATTTG
TTTCCTCATCTTGTCTAACTCCTAGGCTCTACTCATATTCCTCGGCTCATGGCTCCCCTTCCTCTGTCTTCAAATCCAG
CATTTGTGGGTTCAGTCCTCATATCATATCATTCTTACCTCTTCTGCCTGGGTCTTCCACTTTTCAGAACCCCTGTGAT
TAAAGTAGCCCCAACCAAATAATCTGAAATAATGGCTGTATTTTAAGGTCAGCTAATTGGCAATCTTAATTCCATCTGC
AACCACAGCCCCCTTTGCCATGCCAGAATAACTGGTTCTGAGGATTGGGTGTAGACATTTTTAGGGAGCCATTGTTCTG
CCTATCATAGGTAGATATGTTGAACATCTTTTCATGTGCTTATTTGCCATCCATATGTCTTCTTCAGTAAAATGTCTAT
GTCTTTTTGCCATTTTCAAATTGGATTGTTTGTTTTATTAGTATTGAGTTTTGAGGGTTTAAATTTTTTTTGTTGTAGA
TATAAGTCCTCTATAATATTTGTTTTACAAATATTTTCTTTCAGTCTATAGCTTGTCTTTTCAATCCCTTAGCAGGGGC
CATTCACAAAACAAAAGTTTTTAATTTTGATGAAGTCCAATTCATTGATTTTTAAAAGTAAATTATGCTTTTGTTGTCA
TTCTGTATAAGAACTCATCACCAAGCACTAAGTCCTAACATTTTTCTCCTGTCTTCTAGAAGTTTTATAGTTTTATATT
TAATTCTACCACCCATTTCGAGTAATTTTTGTATAAATAGTGAGGTGCAAGTTGAGATTTATTTATCTATTTAATTTG
TCTGTAATGTCTGTATGCATTGCTCCAGCACCACTTGCTGAAAAGACTATCCTTTCTCTACAGAACTGCTTTTCCACT
GATGTTAAAAATAAATTGGCTGTATTTGTGTGGGGATGAATTGTTTCATTCCTTAATGAAAAGAGGAAATACAATAAAC
TATTAAAGTCTAATAAGGCTAAGGGCATAGTCATGTGTTGTTTTTTATATTTTTCTGTTATATTGAAATATTTTAAAAT
CAATAACGTAATAAGGAGGCATTTGCACCCTCAAACTCTGAAAATATTAAGAAAGTGGGTAATGCTATAGTGAGATGTT
GATCACAGTGGATTGGAGACTAATAGCTGTATGATATTGATAAGGTTACTGGCCTCTCTGGGCTTCAGTTTTATTTTTT
TTTGTGAACTGAGAGGGCTGAACTAGGAGACCCCTGGAGTCTTTTGACATTTGCATGCTCACATAGTATGTGATGCTT
CTCATTGTTGAGTTTAGAGTAAGAGATGTGGAGCGGGATCTAGGCTGTCATTCTGGTTTACAGCCTAAAGATGAGACAC
TGTTTATATTTCCAGGTAGAGGCTGCCTAATTAACTACAGGTTCATAGTGGTTGGGAGCAAGCCCTCTTTTTCAAACTA
CTTCGGGAGGTTTTATTATACCTGTAATAATCATTATACTATAGAAGATATCATTGTAGTTTCTTATAAATACCTCACA
CACTTCTTCTGGATTTCATAATGGGGTCACTATATGATGCTTCTTGGGATCTGATTTACAATTTATAAATAAGTCTGAA
ATATAAATAAGAAAATACAATGTATAAGAGTCCTAGAGGTTTAGTCAGCAGAATTCCAAATAGGAGTTTAACCCTCTAA
GGAGCACTTACAGTCTTCTTAGAAATAAACACATTGTAAAATGATTATGAGAAAATATTTATCATACACATTTTAATTG
ATAATTTAGCTGTTATATTTTAATTAGAAAAGAGTTTCTGATTTTCTTTATGGCTATGACTTTAAGCCTGTTATCTAGA
ACACAGTTTATATTTTCTGGTTTCATCATGACAGAAGGCATTTTGAGAAGGGCTAGAGCAAGAAATTAGCAACAGGACG
TCAATTTCGTCTTCTTTGTTTACTTCTTCTGGCTAGTAGCAGAATTTTTTTCTATCAGTAATTTTGGCATCAATAAAAT
AATAAAGGATTACAAACTTCATCCATCATATGCCAACAAATTTGATAACTTACATGAAATGTACAAATTTCTGGAAAGA
TAGAAACTACCAAAAATGACCCAATAAGAAGTAGAAATTCCAAATAGACCTACAACAAGTAAACAGATTGAATTACTAA
TTTTAAAAATTTCCCACAAAGAAAGTCCCAGGCCCAAATGGCTTTACTCGTGCATTCTAACAAAAATTTAAATAAGAATG
ACCACAAATCCTTCACAAGTTCCTTCCAGAAAGAGAGAAATTGGAATTTTCATTCATTGTTGGTGGTAATATAAAATAG
CGCAGTCTCTTTGGAAAGCTATTTGGCAGTTTCTGAAAACATTAATTCTAGAGCTGCATATGACCCAGCAGTTTTTGTA
CTCCCTAGTATATATCCAAGAGAAATACCATATATCTACAAGAAAACTTTTACCCAAATGATCATAGTAGCATTATTTA
TAATAGCAGAAAATAGAAACAACCCAAATGCCTATCAACAAGTGAGGTGACAATCAAAATGTGATATATCCATACGGTG
AGGTATTATTGAGAAATAAAAAGAAATAAAGTATTGATATATGCTACAACATGGATGAACCTTGAAAATATTATGCTTA
GTAAAGGAAGCAAGTCACAAAAGACTACTTCTTGTATGACTCAATTTATATGAAGTGTCCAGAATAGACAAATCTATGA
AAGTTGATTAGTGTCTTCCGACAGCTGGGAGGTTTGGGACAAGAGGGAGTGATTGTTAATGGACCTGTTGTTTTAAATG
TTATTGATTTGATTGTGTTGATGGTTGCATAACTTTGAATATTGTAGAAACGACTGAATTGTACACTTCAAATGGTATG
TGAATTATATCTCAAGAAAACTGTTTTTTAAAAGTAATGTGAATATGTATGTTGAGATAGCATGGTATGTAGAAGTTAT
GCAGGGGAGTGGTTAAGATCATCAACTTGGGTCAGAGTGCCTAAGGTCAACCTCACCATAACAGTTGTGGGAACTTACA
GCTTTCTTAATTTCTCTGTGTCTCAGTTTCCTCACCTGTAAGCATAATAATAGTGCCTTTATCATGGTGTCATCTTTAA
CATTAAATGAGCTAATATTTGAAAAGCATTTAAAACAGTATGTGGCACAACATAAGCACTATATAAGTGTTTGAGAAAT
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TATGTTAAAATTTCCCTTTGTAAAAAAAAAAAGGAAATGTTAGTTACAGTAGATGGCAGTTATTTTGTAATATCTTTAA
TTTGCTAAAGGAACAGTTGGCACTTCTATATTGATCTCAAAGTAATTTTAAAAATATTTTTTGAAATTGTACTTTTCCA
TGAAATCTTAAATTAGAGAACCACAGTTCTATAACTATGTCTTTGTTCAGTGGCCTTTGGAACCAGATGGCTCAAAAAA
TTAATAACCATTCAAGTTTTAACATTAGAAGAGTATTACAGATATTCAGCTACCTAGAAAAATACTTATCATATAGGAG
ATGTTAATGAATGTGCATTGGAATGAATGACAAGAATGGATCATAAGTGTGTGACTTGCTCAGTGTGTGTGTGTGTGTG
TGTATGTGTGTGTGTGTGACAACGACCTCTTTCTACTGGTATCCTAAAGTCTGTATAGTTATATCTGATATGCTTGA
GTTTGCATGTTCTGCTAACCTTATTCCCATGAGATTTCACTTTGAGGTATTTATATGGATTCTAATCTTGCAGCTAAG
TTTTAGAATCCAATCCTCAAAGTATTAAGGGATAATTGGGATTATTTAATACCCTCCCCAATTTTTCTGTAATGTTTT
TTCCTAGTTTCTGCAGACTATTTAAATAATTTTATTTGGTCTGTCTCACCCTCTGTGTTGGCACTTTTAATATCTTTAA
GAGAAACTTGAAAATATTTTAGCTCCATAGAGCACGTTTCAGTTTACCTTTTGTATTCCATAGCCTGGATGTAAGGCTT
CTTTATGTTTTGTGAACAGTTAGAACCACACTGACTGCTATGAAAATGCTTAGTAATAATTATGCTTCCTGGATCCTTG
TGAAATAACCTGCTTTACTCAATTTAGTACACAAGTTATTGAGAAACATCTATAGCCTTTTTCATTGCAGTGTGGGACA
GTAGTTCAGTGCATAGGATCTGAGGCGCTGTCACATCTTTCTTGATGTCTCAAAAACATACCATTGATTTTGCTTCCCA
GACCAGAGAATTAAAGCATTTAAAGTTGCAAGAAGTAGGTTTATTCCTTGACTCAAAAAGGCTTAGTATAACCTACTTG
CACCCCTGTAAGCATCTAAATTATTGTCTTAAGAGAACAGAACCATAATGATAACCACAGTATTGCTTAATATCTGCTG
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Fig. 6.84

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CTGTTTTAAAGCATTTCCCACAGTATTTCATTGTGTCTTAATGTTACTAAACTTTATATTGCAATTGCTTAGAACTGCT
TTAATTGAAGCAATTTAAATTTACATATCCTACTGAGCCACTTTGTGTGTGAAGCACTAACATGTGATAGTGGTTCTTT
TTTATAGATTACAAAGTTACAAACAGTTGGTTGTAGATCTTATCTGTGAAAATAAAAAGCCTTGAACAAGGCTAATGAG
AATGATTAGAGGGAATTTATTAAAAAATTGACTAAGGCGGTCCCCCTCCCTCTATACTATGTCAGCTCACAGCGGGATG
TCTCCAACATTTATTGTCTGTTTAACTCATTTTTGGCATACAACTATTATGCAACTGTTTCAAATATTAATAGCTCCTC
TCCACAGCTAAACTGTGATCTTGATTTTATACCAGCCCTAATAGTGTCAAGGACAGAGGTGACAACATCTTAGGAGCTC
AAGACGAAGAATTTGAGGTCATTGTCCTGAGAGGTCATGTTAGTTACATAGCAGGGAATGGTTATATAGGATTACAAC
TGTCTTATTTGAATAATTTACTGCAGCCCTTTGAATGTGTATTTTTTTCATAGAATTTTCAGTTACTTTGTCTCTTTGA
GATGTTCCCGTGTATTGTTCAAGGCATGGATTTTTATTGGACATACTGGTTGCAAGTGATGATAATCCAACTTAAATGG
ATCCTATCATTGAAAATTCTAGGGTTAGATCTGGATCCCAGGCTAGAAAAATATCATTAAGATCATTTTTTTTTTCCATT
GCACAGCTCAGTTTTTCTCTTTATTGGCTTCATTCAAGTAGACTTTACTCCTACAACCCTGTCACCAACATAAATAATT
TGCCACAAAGTTTATATCTTATTGTTTCAGCAACCTCAATAGAACAATAGCTTCTCTATTTGTTTTAAATAAAAGTCTC
AGGATTGCATCTCACAAGACTGATGCAGGTCATATGACCCCAATTGAACTAATCACTATAGCTAGGACAGTGTCGTGCA
CCAAGACTGCCTGAGATGAGAGATGAGAAGTGTGGATTCACCAAGGAAGATCATGCTGTCACTATCAGAAAATGGAAGA
ATGAATCTGTTCTCCCCACCCAACAAAAATACATAGTTTTAATTTCTTTCTACTTTATGAAGTATTCCCAATTATATTT
CTTTTTCTTTTATGCGTGAACACACATTTTCTTTCCTCTGTAACAAACTTCTACCTTTAACATTCCCCAGGTCATCACT
GCATTCTCCATGTGAACAGTAAGAATAATGAGAGATCAGCGAAGAAAGCAAACCTTAACCCCTGTTCCTGCCAGAACTA
AGGGTTTCAACTGACATCTTCTAGAGTTTATGCCAAAGCCTACCTATTTCTGATGGATGATGTTTAAATTTCCATTGCA
TCCTAAGCTCCACTTCACTTAGGCTGCCAAATGATTTTAGAAAACTCCTCAATGAAGATTGTGTAAACAAAATAGTGG
TTGAGACCTTTACTTATGTCATCATATTCATTTAGTCTAGCACTTTTCCTCTATCATTGACTCAAAGTTCTCTTTAGCC
AAACATCATTGTGTCAAAGATCATGGAATACTTTTGTAATATTGAAAGAAGGCCCAGCTTCTCCTTTCCTAAAAGTGTT
ATGTCAACCTCAGTTAAAATCAGTAGTCCACAGTTGTTTTTGCCAAAACAAGAATGAATTACATTGGTGGTGAAAGTCC
CTCTTCTAGTGGCAGAGAGAGAATCTAGAATAATTCACCCACTCGGGATATGGGTGGTTTGCAAGGAATGAAAAATCCA
ACTAGAATAAGTTTCCACTTTGCAAAGGACATCACATTTGCCCACTTTTGTCTAGGTAGCAGTGTTCAAGAATGGGGAC
TTGTTTTTTCTTCAGAACCTCTAGTCTAGTAATTTTATTGAATGATTTCTTCAAAAACTCCACTATTTCAAAATAATTA
AAAACTCATTTGAAAATCAATAAAGCCCTCAAGATGTTTTTAAAGAGTTTCTAGATTCACATTTTAGTTTCTCACTTTA
AAATCATTGTTTTTTAAAATTGAATTTAAGCCTTTCATAATTTATTGCTAATTGAAAACAAAATCAACAATAAGCATAA
AATCCCAGTTGTAATCCAGCACAGCCTCCCAGATGCTTGTTGCCCTATTTTGATGTGTCCTTTCTTTTGAAGAGCTTGG
GTGTTATGTGGTCAGCACTATCCAAACAATTAATGTGATTGAGTGAAAATGCCCCTTCAGCAGAAATAGTTTCTTCTGT
GAGGAGGCTAAACTGCCATTAGAATGAAGAAGAGTTATGTAAGACTATTTTTTATCCAAACTGATTGGGCTGAATTCCA
GATTTCTCTAATGAAACCTTGCTGAATAACTGCTATGCTTGCAGCTGTGGAAGTATTCAAAATCAAGTGCTGATTCTTG
CCAATTGATCTACTACTTCTAAACTGCAGTTCTAAAAGCTAAACCCAAGTGATTGTTCAAAGAAACTGATTGTACAGGA
ATTTACTTTTGATGATAGTAAGTGGGCCAGAATCTAGGACATGAACATATCAGTTGTTATGACAACTGTTGAAGGAGAC
CTGTCTTGATAGCATGGAGTTTTCCATTGGCATTTGGCAAATAATACCATCCTTCAGAACTCAGGAGACCATTTACAAA
TTAAGGATGATGATACTTATATTTTCCTAGCTTCTCTGAAATATTCTGAAAACTAGTTCAAGATTTAAATATTTTTCTT
TTATTCTTTAGCGTAAAAAACTTTAGCAATCTTTAAGAACATTGTGATCAAGCATCTTAGGCTAATCTCAGGATAAAAC
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TGTCGTTTTAAAATGCAAATAATACATCATAAGCTGAAAACATAATACTGGCTAAAGATTGCTCTTAAAAGAGGACCAA
AGTTCTGAAGTGAATATATTGAAGTGCCAGGATGTTTATTTTTTATGAATGGTGAGCCACATATACTTCTACTATTAAA
TTATAGTCTTACAGTGTCTCAAAATTTTCAGCTTTCCAATGCTTGGCTTCTTATTACGTGCAGAAAGAAGAGAATATTG
ATATTTCAAAATCTAGATGTATCAGCAGACTTATATTGAAATTGTTTTAAATTGATCCCTAACTATTCTTAGTTCCCAG
CCGTTACCTTATATATTGCTGCATAACAAATGCCCTAAAATTTAATGGCTTAAAACCATAGCCATTCTCACTATTTGTC
ATGATTCTTTAATCTGACATGGGCCCAGCTGGGTAGTTTTGTGGCTGGCAGTCACTCACGGCTGTATTTAGCAGGCAGG
TTTGCAGTGAGCTGGAGCTAGGCTCAGTTGGGATGCTGGGATGACTTCTCGCTCTCTGTATAGTTTCTGGGCCTCTCTC
TTTTCACATAGTCATTCCATGTGGCTTTTTGTTTTTTTGTTTTTTGTTTTTTTTGGTAGTTTAGCTTCTTAC
ACAGCAGCTCAGGGTACCCAAAAATACAAAAATAAAAATTTCCAGGCCTTCTTAATCCTTAAACCCAGAATTGGCACAG
CTTGCTTTTGCAGCATTCTATTTATTGGTTAAAGGAAGTCACAGTGCCAACCCAGATTCAAGGAGAGAGGAGGATACAA
GGATGTGAATGCTGGGAAGCACAGCTCATTGGGGGGCACCCAAGTAATCATCTCCTGCATGATCATTTATTGATTCATT
CAAATGGCATGTGATATTTCTCTGTTCATTATGAGAAATACTAGTTACCCATATACTCTGTTGTGTCGTGGATAGATGG
ATTTAGTTAGACCTAGTTCCTATTAGTAGGGCTTTGCATAGCCTTTGCTAATCTCTGAAAAATATCTTCTGTATATCAA
GCAGACATGACCTTGATTTGCAGAGGTGACAGTTTATGAGGAGAGGCAGATATAATCAAATAACTAAATAAATATATGT
GTTCATGTGTGTGTTTATAGTTATAAACTATATTATAAATGGTAGAGGGAAAGTATAGGGTGCCACGAGAGTACATGAA
TATTAGGAAAGGGAAGTCAGGATAATATTCCCTGAGAAAGAGATGTGTGTTTGAATTATTTAAAGGGCAAGGAGAGTAG
AGTAGAAGAGTAAAGTGATGGGCAATGGGAGAGATGCATTCCAGCAGGCGACCTTGAGGTGCGAGAGAGCATGACATTG
AGGGGAGAAGGGTGTTTGAGGAAATGAATGTAGACAATGTGATTATAGTGCAGGAAGTTAGGGAAAAAGTGATGTGACG
TGCGACTGCAATGAAAAAATGGGAGCCAGAGCACATAGGGACTTACTGGCTATGATAAGAATTTGTAAGAACAATAGAA
TAGCACTGAAATATTTAAGAGATCAGCTGAAGATCATGGCAAATAACAAGACTGACAATTTGTAAAAATAAATCTATCC
TTTGTGTGGAGAACCAATTTAAGAGGCCAAGAGTGAATGTGCAAAGACTAATTAGGAGGTTTTTACAAAAGTAAAACCC
TTCCTTCCTTCTTTCCTTCGTTCCTTCCTCCCTCCCTCCCTCCCTCCTTCCCTTTCCTCCCTCCCTCCCTCTCTCCCCC
TTCCTCCTTTCCTCTCCTCCTCCCTTCCCTCCCTTCTACCCTTCCTCTCCTCCTCCCTTCCCTCCCTTCTACCCTTATT
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Fig. 6.85

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TCCCTCTTTCCTATCACACAATCATTTGTTCAATATATACTTCTGGAATGCTGCTGTAGCCAGGGACTCATCCGGGTGC
TAAGGATCTATCAATGAACAAAACAAAGTCCCTGACCTCATGGAACTTACATTCTGGGAATCGTATGAAATATTTCTCA
CTATCCTTTTTACATACAGTCAGTTCTCTAATCTTTATATTTTATGCACAACTGAAAGGGAAAGGGTACTAATAATTAC
CAAATGCCAATCATATATTAGGCATATCCACCTATGTTATGTTATTTAATAACTAATGGCTTACTGTGATTCTGACTGT
CCCATTTAAATTCTGATTGTAGAAACATATTTTGTTTTTTGTGACTGATTGGGGAAACTTTAAATATTCAAGAAGTTAGG
TATAATTATGTGTTTATGCACTATGTGCATATGTGTGTATCTATCTATATATCTATCTGTTTGTATATTTTTC
CCTCTGTCAAAAAATAGGTGGTTTGTTCAAAGACTGATTGGAAATTATTTTAATATAGACTGAAGATGACAGACTCATC
TTCAAGGTTAGAATTTGGGATGGCGAGGTTAGAATTAATCAAGATTATGGGTTGGGATGGTGAAGTTAGTTTAATACCA
TTTAAAATATTAATATCCAGGTGGTGTGTGTGTGTGTGTGATGTGTAGAAATTAACAAAGACACCTGAGTAAA
GAAGGATGGCTTGGGACTGGAAGTGTCAGATGGCATTGATGACAAAGAGTTTGGGGAAAAATGAGAACAGAAGAAGAAA
CCAGTACCACTCTTGAAACCACATTCCAGTTTAGGGTAGCCTTAACTCTTGTTTCTTCTGATTCCAGCCTGCTTTCTTT
TAGCTTTTGCCTACAGTTGACCTTCCTTGCAGCATTAAAAGAAAGAGGTTGTTAAAAATGCACTTAAAAAATAACGCTG
TTTTTCAAATAAAAAATTAAATGTCTGCATTTCAAGGCATCTTTTCTACATTTATAAAACTATCTGGAGTCAAGGCACA
TGCATTAAGGCTTACATTATTTTTGTGAAGGTTCATTCCAACTGGGTTTTTTCTTTGGTTCTCTGGGGCACCCTGTTTG
ATTTATTTGAGCAGCTGTGATTTAGGATTGATTGTCACTGTAATATTATAGTTCTAATCTCTTGAAGTCTAGTACTTTG
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TTAGCACAGTCACTTTAAAGAACCCTTTTCATGTCAATAAGAAGCACTTAATGGTCAATTTACAGGTTGTTACTTTCCT
TTCAAGAAATATCCAAATACTTTGATTTATTAAAATATTTTTGAGGTTTATATTCAAATAACAAAGTTGACAGGATTTA
GACTATTGTACCTTTATATATCCATTATATTCTCTAGGTTTGCTATTATGCTTTTTGTTCTAGCTATATTTAACCTGCA
TATCCATATACTTATTGATTTAATATTTTGTTACAGTTTCAAAACAAAAATTAATGTGTCAGTAGCCCAGTCGTTAGGA
GCATGAACTCTAAAATGAGATTACCAAGGTATAAATTCTGATTCTGTCACTATGTGACCTTCTCCAAGTTGCTTAATCA
TTCTGTGCCTCAGTTTTTCTATCTGTAAAATATAAATAGTAATATGATCTATCTCATAAGATTTTTATTCTATTTAAAT
GAGGTAATATATGTACTGTACAGCACTTAGTAGAGTGTTAGGTACCCATTAAACAAAAGGTAGCTTTTAGTTACCATTA
TTATAAAGTGGAACCCCAGAGAGTTCCCATGTTAGAATTCAGCAAAGTGAGGAGTTGGGTTCTCAGCTTTGCAGGTTGA
GCAATTCAGTTTTATCAGTGATCCCAGATTTAATCATCTCACAGTCTCTCAGATGATTGAACAAATGAACCTAATAGTG
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GAGTATCTCACTGTTGCCTCCATGTACTAAGGGTCACTCTATTCCCACCCTGTCCTGCAAGACATTCAGTGCAGTGCCA
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GAAAACTTTTAACATCTCATTATAAATATCTACCCACCCAGTAATTGAGTTATAGCTTATATTGTGCAATTTACAATTCA
TATCTTTAAAAGAGCTCACAGTTACCTCTATTTGTAAGTTTTGACAGCAAAAACCTGTTCATTTCTTCATCAAACATTC
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```

Fig. 6.86

CCACAAGGCCCATAATAAACATATGAAATGTTTACTTTTATTAGTCATCAGAGAGATATAAATTTAAACCTCATTGAGA
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CAAGAATAAACACGTATCATTTCAATTTCTGGGGAATCAGTAATTCAGATGAGGGTTTAGGTGGTTTGGACTCAGAGTC
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CATTAGCTTCATTTTTACTGTGATGTAATACTCTATGGAGATTTCATTTTACTCTTGATAGATCTTTATTTTCATTTTT
CAGTTATGAATGTCTGTTGTGATTTTTGATGAATACATCTACTCATTCATTTTTTAGTTGACATAGCTAGAGTTAACAT

Fig. 6.82

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GGCTGGTTTGTAGGGTAGACATAATTCAGCTTTAGTAAATGCTGCCAAAGGATTTTACAAAGTGATAGTACTAACTTCT
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Fig. 6.88

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GCCAGCAACAATAACCAAAGCAATAGGAAAATAGCCCCTGCTTCGCTTCTGTCTGCCAGCTGTCTCACTAGAGCACATG
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AAATTGCCATAAGATAATGATGACATTTTACCATCCTGTGACATTATCATTATTGATTCTTCCTCTATTTTATTTAATG
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TTGCCAACAGGAAGCTTTTCCAAAATCTCCATTGTTATCCAGAGAGAAAAGAATGACATAGCAATGTTTTTAACATTTC
AACAGCATAATTTTCTTTGTCTCTGGAAAACGGGAAGCTACGTATCATTAGGAATTTCCTGATTAATTTCCTAAAGTAT
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CAAAGATCTCAGAAATCTGGTTTTAATTTATCAGCTTTGAGTTGCTTTTTTCCTTCACCTTTTCATGCTTGTCACTGGCT
GCCTAACCCAAGTGAGGCAGGTTTCCTGTAGATCCCATCTGTCTTGCCGGCACCTCCTGCACTTGCTGGCATCCCTTGC
TTGCTAGTCCACAGATAGACTGCACTTTGATGCATTAATGATGTTTAATACCACAGTGACTATATTTTTACTTTGTTAT
ACTGATCATTGTTGCTGCTTATAAGAATACAATGGGAGACAGGATTCTGAGGCTGGGTGCTGGGGGAAGCCATTTAAAA
TCTGGCAGCACTGGCGGGAAAGCATACCTGGTGCTGCCAGGTTGGAGCTTGGTGCCCTTTTCTGCCTTTTTCATGACAC
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Fig. 6.89

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CTCTAAGGGGGAGCCATTGTCCTGCTATTCTCTTTGGCTTTCTTTTTAAGGGGCTGTGCACCCATAGATTTGCTGTAGC
CAAAACTTACAAGACCGTAACTACACAGTTCAACCCTACATACACCCTGTGATATCTCTGAACTCTTCTCTACTCCTCT
CTTCCCTGCTCACTTGGCCCCAGCTGTGCTTCAGACACACCAAGGTACTTCCAGACACTTACAGGCTTCACTCCTGCCC
CTCCATTAAGCTGTTACTCAAATGTCGTCTTTTCAAAGAATCTCTTTCTGGGCATGCTATCTAAAATTGCAATCCCTAC
TGCTAATACACTCTATTTTTGTCTTTGCACATATCACCATCTCACAGAATGTATTTTACTCACTAATCACTTACACATT
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TGTCGATCACACTGAAATAAGAGCAGACCCATTGATTGATTCAATACTAAATGTGATTGTTCTATAACTTTCTGAACACT
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CAGGCGTGAGCCACCATGCCCCACCCTATTGCCTTTTCAGGAAAGTTTTTGGAGTGTTCTGAAGGTTGGGGAGGATCCA
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ACTCAGAACTGACTGAAATGATTCTAAGTTTGAATTTCTATAATTATGCTTGAATTTCAAAGCCTACCTTGCATAGGAT
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Fig. 6.90.

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GGTGGCTAGGGCATAAATATTACATCCTATCTCCAGTTAAGGCATGGATACCTGCACCATCTTTCATATGAGAAGCATC
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CATTGCATTTTTATAGCGATACTAATTTAGGTAATCTGCTATTGTTAAGTATTTAATTTATTCACTAGGCCGGGCATGG
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GATGATTTGGTGTCTGTCTCTCCTGCCTCCACTTTGAAGTATCTGAAGCTGGTTAATACTCTAATTCTGTTCTCTTGC
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TTCCTTAGTAATATTTATGAATGAGATAATCTGTAACAATATCTTGGTATGGTATGATATGTTGTGACATCATCTTCAT
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AAGTGATGGGTTCATTTTGAGGCTCATTGAATGAGTCCTTGAAGAAGGAAGCATCAAAATGAAAAGGATTTCAAATCTC
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Fig. 6.9(?)

TGAGTATAAGGTTTGAAATGTTCATTTGACCTCACTGATGGCTGTGGAAAAGCCTAGGCTTGGACACAGAAACTGAAGG
TTAAATCTTGTACTATAATTGAGTGTCTCTAGAATTAGTACAGGCTTCTCTCATTTTGTGGCAGTGTAACAGCAGACTA
ACAATCCTGGGAAGAGTGCATTTTTAATGAAACATTTTTGCAGGGTTAGTAAAATCCAGATCTCCTAAAAAACCCAATG
CTTGCTTACTCTAAGATGAGAAGGATAAGCCAAATTCAAGGCTTCTCACTATGCCACCAGGTTATACAATAAATTTTGA
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TTGATCCTGACATTGACATGCAAAAGGGTTAAGTAGTTTCTCATGGCCATAAAATTAGAAAATGGCCAAAACAGAATTT
GACTCCAAATTCTTTGGAATATGGAATATGACTGATTCCAAAACCTAATATTCCACTGATTAGTTTTGTCTCTTCATCT
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AAAAATATCTCCTTAAGAACAAAGGAATTAAAACAAGGCACTACATTGAAGGAGTTTATTTTATCTACCACATATACAC
TGAATATGAAAGAAAAAGAGTATATTGAAAATGATTCTCTAATGGCAGAAAAATATTATAATTTATGCTGTACTAGATC
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ATAGCTCAGATTGAGAAAGCTATACATAATATAATGCAGGATCTATAACATGGATTGTCTTTCTCAATTTCTCACTATT
CCTCACTCTCACCTTTCCTTCTCTCTTTCAGCTACCTATTCCTATCTAATCTATCTATCTATCTATCTATCTATCTATC
TATCTATCTATCTAACTGTCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTGC
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GACCCCGTGAAGTAGCAAGAAGTTGAGCAGTCAGTTGGAGAACCAGCAGAAGACAGAGGAAGAGGGATTTTCTAGAAGG

Fig. 6.92

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CAAAACAATGTGATAGCAGAGAGTTCTAGTCAGATAATTTGTGAAAAGTTTGTTAGATTTTGTGATATGGAGGTCTAGG
ATCTTTAGAGAAAGTAGTTTAAGTGTGGAAGGAGTAAAACTTGCTTGCATTGGGTTGAGGGGTAGACAGTGGGAATAAG
GAGGTAAAGAAAGATAACAGACATTTTTTTTCAAATAGCTTGATTTTGAAGAGAAAGAGAATGATATCTTGAGGAGGGA
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TAATGAATTGCTTTCAAACTTAAATATATATATATTTTTTGAGATGGAGTCTCACTCTGCCACCCAGCCTGGAGTGCAA
TGGTGCAATCTCAGCTCACTGCAACCTCTGCCTCCTGAGTTCAAGCGATTCTCCTGCCTCAGCCTCTTGAGTAGCTGGG
TTACAGGTGCCTGCCACCATGCCCAGCTAATTTTTGTATTTTTTTTTAATGGAGACAGAGTTTCACCATGTTGGCCAGG
CTGGTCTCACACTCCTGACCTCAGGTGATCCACCTGCCTTGGTCTCCCAAAGTGCTGGGATGACAGGCACGAGCCACTG
TGCCTGGTAGAAGTTATATTTTTTAATCACAACTTGCAGTATGGAAGAGACTTTACAATGTACCTTATTCAACCCTG
TATTATTAGTTTGTTTTCATACTGCTATAAAGAACTGCTCAAGACTGGGCAATTTATAAAGGTAAGAGGTTTAATTGGC
TTACAGTTCTGCATGGCTGGGGAGGTCTCAGGAAACTTACAATCATGTTGAAAGGCGAAGGGGAAGCAAGACACCTTCT
TCACAAGGAGGCAGGAAGGAGAATGAACACAGGAGGAACTACCAAATACTTATAAAACCATCAGATCTCATGAGAACTC
ACCCACTATCATGAGATCAGCATGGGGAAAACAGCCTCCATGATTCCATTACCTCCATTTGGTTTCTCCCTTGTCACGT
GGGGATTATGGGGATTATAATTCAAGACGAGATTTTGGGTAGGGACACAGCCAAACCATATCAATGCCCCAGTTGAAGA
AGCAAAGATTAAACCCATAAAACAATTATTGAAAAAAAAATGTTAGCTAGTAGATGAGTTTGTGGTACAACATACTTTT
TGTTATTGGACCTCAGAGTCAGTAGAAATCTATGTGACTTGGCGCAGTAGGGGAAGTTGTTATTAGAAAGAAGGGCTTT
TGTTGGACTTTGAATAGGAAGAGTTCTGTAAAATGAAGAGAACAAAAATTAAAGGGCATGAATCTAAGGCCAAGAGGTA
GAAATGGATGTGTCTCAGGTGCGGCAGAGATGAGACCAGCCTGGAGGGTAGAGGGCTGGTGTTGGGAGATACAGTGTGA
GGTAAGGCCAAATTAAGCATGCAAATCACAGATCACTTGACTCTTCTAGTTGAAACACATCACTCTGGAGTTCCTACTG
AGCATAAGCTACAACCTGATTATATAAAGCCATCCTTGTGGTTACAGGTAGATTGCACTGACTTTGGCAAGTTTCAAGA
TGTTAAACTGTGCTGGGAAGACTACAAGATGGGTTGACAGATAAAACTAGTTTTAGGAAAATGCATGCACAGGGCAATA
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AGGCAGACTACTTATGTTCCCTATACTTCAATTACCCTATTTGTACTCTACGTTCTTTCTAAATCTCAGATTCTATAGC
CTCTAGCAGGAGCTCAGATAAAGCATAGCTTCAGATAAACAGCACTCTAGAGAAAAGAGAGAAAATGTAAATAGCAGGA
AATCTCTATTGTCATCTTTAGATCTGGAATAAGAAGTCCTTTCTTTTAATTCACAATTTTAGAAGGTATGAGGAGATAT
CCAGAACTTTCTTCCCTTGTTTCTGCTACCAATGTAGCAGAGGGCCAACTGAAGCAGATGTTCACATTATCTATCTTAC
GTGTGTAGAGGGCAAATTAGTGGACATTTAAGAGCCCAGGCAATAATTCAACCATTCCATGAAAAATCTGTTATTCC
ATCCTTGTATGTTTCTTTTCTTTTAACTTTTTGAGTATTTAATTCTTGTGTTGCCTCCTCCTAATTTCCTTCCTGCAGA
TACTTTGGTGAGTAAACCTTGATAAATTAAGCCTGTTTTTATTATATTCCTTTGGAGTTGTCTTTGATTGTGATCAAGC
TTCTCTTTTTATACATGCCACATGTATTCATTCTTCATTTAGATGAGAATCTAATCAAGGGAATAAACTGCCAAGTTTG
GTTTCATTTATGCAACCCTAGAAAAATATATCTTTTGATGAGTTGGAGACAACAGTAAGTTAGAGACAGAGCTAATCCA
TTACACCTTGATCACTCAGAGGCAACTGTACCCAAACAATTCTTTCCCTTTGCATCAAGAAAGTTTGTTGTTTATCTGA
GAGCTTAGTACTGTGCCTGGCACATATAAGGTGCTCAATAAACTTTTTAAAACCAATGCATCTGAGTGGCTTTATAATT
CAGCAGTTACTGTATGAACTGACTTACTATGTAGAAGAAAAAAGTATTAGTTCAAAAAGAGGAGATTAAAGAATTCTTC
TTACATATATAAAACATGTCCTGTTCAGTAGCTTCTCTAATATTTTGTGGATGATTGGAATCCCTTTTCACTCATATTT

Fig. 6.93

AAGGATGTCATTATGTATGGGGACATTTGCTGTTTCAATACATAGATTTATATTTGCAGGGAACTTAAAGTCCCCGGAA
ATTTTTCTGAGATATTATCTGATTAATCCCCATAACTAAGATGATTATATTTGCAGGGAACTTAAAGTCCCCGGAA
AAGGGATTTTCCTAATACCATACAGTTTGTGTATATGACGTAGCAATGAAAGTAGAACTTATTTCATCTGATGACCAGT
TCAAGACATTTTCTGCTATATAAATCTTTAATCTCTAGGATAGAAACTGTCTTAATTCCCTTTGCATTGACACAGCAAA
ATGTATATAGGTGGTCCATCTAATTCCATCTCTGAATATTCCAGCACTATCTGTCTTATCCACCTCCTCTATTCATTTT
TATTTCTAAAGTGTTCTCCCTGCAGGAGCTGACTCTTCCTTCTTTCTAATTAACTTTATGTGGAAACTCCTATCGTAAC
GAAATTGCACGTGTGAGTGTTCTCTCGCCTGGCTTTCTTTTTTAGTGCACCTGGAGGGAGAAAGCTTTTCTGCAGTCTCA
CCACATTATCTTTGCTGAGAGAGAAACTTGCAGGAACTAAGATAACTGCCTTCCTGAGAGTCAACCTTTTTCATCAAACA
TTCTTTAGTTTAGGCACAGCTTTGATTTTTGCAGAGGTTACCCACTTGTTCATAATTAAAATGCACTGGTTCATGCTATT
GGCAGCAAAGCACTATGGAAGAGTAGACAAAAACGTGGATTTTGAGGCAGACAAATCAGGTGTGAATACTGGTTCTGCC
ATTCCTGGGCAATTTACTTCATTCGTTGCTGCTGATTTCCTCGTTTGTGCCATGGGAAAACATATTAACAATGTCTACC
TCACAGGAGTATTGGAAAGTTTAATGATACATTATAGAGATTTTTTTAAGGATAAATGAGGTAGCAGAACATGCAATCC
TCTTCATAGACTGCAGAGCACATCTACCATTTCCCCTCCATCTCCACTCTCCTCCCTGCCCTACCTTGGGGGCTTTGA
ACCCTGGAAGGCTGACCAGTCAGATGTACTTCTTCCTCCTTTGCCCTCCTGCTTGCTTGCATTTGGTTAGTGGGGAGTC
CTAGGAGGAGACAGATGGAGAAAGGAAAATGAGACTGCGTGCAACTGGTTGTCTTCTTCTTTTTAGGGTCTAGCTGTGT
CCCAGAGAGCAACTTCCCTTTTCAAGGCAGCCCACTCTGTGTGATGCTTTTTCCTAGGTATGGGCAACCCATCCCTCCT
AGGGTGAAAACTTCGCTGTTGCTAGTTCCAGGTACTGTGCCATCCTTTGTGGATTCCTCTACCCTACCAACATCTCCTT
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ACTAGCCCAGTAGGGCAACTATTCCATGGTTGTCCCTAAGGCTACTCATTAAATCCTGGATGAATAATTAAATATTTTG
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TCAGTTTGTATTAATTTCTGTCCAATTCCTAAATTACATGAGTAACATAATTCTGCATTTTCTGGGACCTATAGGATGC
TAATTTGTAAAGGTGATTCAATTCCTGGAGGTGTACTAGCTGAGAACTTTCCATTGTGGATCAGCTCCTCCCTTCAAAT
TCTTTAATCTTCAGGCAAGCATTTCTATCAACCTTGGAAGAAGGCTTTGTCCCTTGTTTCTACCTCTACTTTGCTGTTTGAGTCCCCAAGTTG
CATCCAGAGATATTCTTAGCCACAGTGAACCTTACTTCTCTGTTTCTACCTCTACTTTGCCCTTTGAGTCCCCAAGTTG
TCCCGCAAAGTGTCTTCCTTTTATTTTGAGAAGACTTGAGAGGGTGACTCACATATATTCCGTTACGGGACCTCTTACC
TTTAAAAAGGCTGTGTTCCTTGCAGGCTTCTCTGCTTTCATTTTGTATGTTTTTTTAAAAAAATGATACATAGTTACTTT
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CAGACCTTAATCACTGTTACTCTTTTCCTTAAGTCTCAGACACATGTTTTTTGAGAAGCTTACAACAAACCCAAATGAT
AGAACTACATGCTGCTGTTAGCATCAGCCTACACCTACACTATTAGCCTAAACCTGCAATATCAGAGTTTTTTGTGGTTT
GACCAAGCCTTTTATCCTCTTTCCCTTACAGTAAGTTCTTTCCCAGAAAGAAAATATCAGCCCACTGCAAATATATCT
TATAAATATGTAGGTTGTGTCCTGATGTAGCAGAATATCATAAATGAACACAGCACATATAGCTATTCGATTTGTTCTT
TCTTCAAAACTCAAAATGGAGAATCTCCACTGTAGTGTCTAGGAGAAAGCAAAGATTAGTTAGGTAATGAGGATGTCAA
TGTCATTCAAGTGGCAATTACTCTGGAATATTCCTTGAAATAACAGTTACTGCTTACTTAACAGTTATTGCTTATACTT
TTTGTTCTCATCTTCTCAAGTATTCCTTACAACCACTAAGAACTAAAGGGGTAGATAACTCACTAAATTTACTGAAGAG
TCATTGGATTGGCTTCAAGGTACTATTGATTATTGTCAGTGAAACAAGACGCAATGATGCAGTTGCTCAGAGGGCTCTT
TTCTTCACATGTAAGTAAGATTCCTCCAGCAGTGGATCACCTTAGTGATCCCTTAGTGAAAAATTGTCGAATCCTTAGC
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TATCTGTTTTTTTTTTTTTCAGCCACTAAAACTGTAGAGTTGAATATTTAATGGAAAACAGATGGTGCTTGAAATCTC
TAACTTACATTTAACAAAAGCTGTTTTGGAAATGTTGCTTATGTATACTTTTTTATTGCTTTAAACACAGCACCGTTTT
AGCCTGTTCCGATGAATTATTTAAGAATTAACTGTCCCAGTCTAAGACAGCATTTCAAAGTGCAAGTGTTAATCATAAC
TTGATTAAACATTTCCTTCCTTTTCTTTTCAGCCATTCCAGTTGGCTTTTGAGTGGATACGTGCAGTGAGATCATTGACA
CTGGAAACACTAGTTCCCATTTTAATTACTTAAAACACCACGATGAAAAGAAATACCTGTGATTTGCTTTCTCGGAGCA
AAAGTGTAAGTAACTTTTGTTTTCATCTATTTTCTAAACACATGTACATATAACATTTTAGTTTTGGTTTTGGATTTTA
ATGCTATGCTATCATGATTAGGCTTGTGGGAAACGTTTAGTCAACTTTCAGTTCTCTGACTGTACACAGCTTATTAACA
AACAAAGACTAGTTTGTCTGTGTGACCTGTTAGCATTTGATGAGAATTCTTTCAGCTAGTTTATATCTTACCATTCATT
CATATACGTCTACAAGCCTGATGTTGAACACTCTAATTTTTTGAGTGCATGCAGAAAATATATGATTAAAAGTCAAAATA
TAGGGAATTTATGTCTTGAATATGAAACCTTCTGGGCAAGTCTAAAAGCATAAATTATACTTATGTTATTAGTTACTTC
AACCAGTCACATTCTGAAAGTTCTTCCCTTCTATGAGCATTTCTACCCTGGCATATATCTCTAATTTCTTCTTTTAATCT
TTTTTTAAAAACATTTTAAATTGAACATCCTCAGGGCTCTACTGAAGGTTAAACCTTATTTCCAATTATGTAGTGTTCT
ACACAAGGAAAGGATGAAAGCAGACTATTAATTTCCATCAAGCAAGCGCTAAGAACACATCCCTTTGTTCATTTACCCA

Fig. 6.95

100/375

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AGGGGGATAAGGCATCCAAACAGATGTACTTGTGACGTAGGAACATTAATTTGAAGGCATCAGAAAAACCACAAATGCA
AACACATTTCTCTAGTATGGGAACACTTTGTTGTTATAACCAGTGATTCTATTGTGGTGGCCCAAGGCCATCTTTCATTC
TTTCTATGGAGTTACCATCCAGCTTTTAAGGGTGAGGCATGAGTATGTGCAGATAAAGTATAGTATGCCCAACTGTGTT
TGTTAAAAAATGAGGATATGCTGAGAGATATGCCAATCCTTTGACTGAATACCGTGTTTAATAACCAACCAAGTAAATT
CAACAAACTCTGAGGAATTGTTCAAATTTATGTGTTTACTGGTTGGTGTTTGGTTGTATGGATTATTGCATAAAAGAA
GGGGCCATGGATTTGAGCCTGGAATTCCTTTTATCATCATACAAAGTCACTCACTGTAATAGGAGGTGACCTGCATACA
AATGTTTTCTGTTATTGAATTTCAGACACATGAGATCTGAAAAAAAATGTGTAAAGGCAAAAGGGAGGATATTTTGAA
TAATTACAAATGTCATTAAACATTTCCCTATTCTTGGAGGAAAACATTGTAAAAGCAAATGATTAACTGAGCGGTGACT
GAAAGGCTCAAGCTTTCCAGATTAAGAGAACCTGAGTTGCCTACATTTGTCAAAATGTAAACAGTAGAACTCTCATTTC
ATGTTTATCAGAAAAAAAGAGCCAGACTTATTGCCTAGTTAGAAGTTGTCACTTTAGGGCTATAAAATTTTATTTTGCT
CTGGTCTGAGCATATAACCCTCCAACGCTTACGTTTTTGCCATAATATAATCCAAAATTGTATACTTAGAGGTAGATTT
TTCCTGGTTTTGATGAAGAAAGTTTAAAGAATTAGTTCTCTTTAGAATCTGAGGATGTTTATCTTTGGCATTCTGACAT
·TTGGAAATCCAAAGAAAATGTTCGAAATTTAAAACAGTCTCTGTTCCTCCCTACATGCCTCTCTTGTAGGTCTTGCATC
TTTCATTGTGAAAATTTAAGGCATACAAAGAGGTAGAAAAAAGATCATCCTTAAACGATCACCTTACTTAGTGAGTTC
CTCTCATGAGAGGGGTTCCAGTGTGTCTTGGAAGACCATTTAGTCACTCTTCAACTCAAACAATTCAGGCATAAGATGG
GTGGTTAAACTATGTGAGTGTTCTGTTTCCTACCAGTTATGAATTTCTATGATTCTATACCATGTTGTGCTCATTCGTA
AGTTGAATCAAAGACCAGTTCCCAAATAAATATAAAATCAAGGCATCAGGGCAAACAGAGTATATTAATCAGCTTGGGC·
TACAATATACCATAGACTAGGTGGCTTAAACAGAAAGTATTTTATCACAATTCTGCAGGCTGGGAAGTTCAAGATCAA
AATGCCAACCAATTTTGTTCCTGGTAAGCTCTCTCGTCCTGGTTTGCTGATGGCTTGCCGAAAGCTACTTTTTCCCTGG
GTCCTCACATGGCAGAGAGAGAAAGCAAGATCTCTGCTGCTGCTTCTTTTAAGGTCACTAATCCCATCATTAGGGCCCC
ACCTTCATGAATTCATCTAACACTAATTACCTCCCAAAGACCCCACCTCCAAAAACCATCACATTGGGGGTTAGGGCTT
CAACAAATGTATTTCAGGGGGACACAAACATTTGGTCCATAAGAGAGTTTGATATTCTTTTTTTTTTTTTTTTCTGAGA
CGGAGTCTTGCTCTGTTGCCTAGGCTGGAGCGCAGTGGCGCGATCTCGGCTCACTGCAAGCTCCGCCTCCCTGGTTCAC
GCCATTCTCCTGCCTCAGCCTCCCGAGTAGCAGGGACTACACGTGCCCGCCACCACGCTCGGCTAATTTTTTTGGCATT
TTTAGTAGAGACAGGGTTTCACCATGTTAGCCAGGATGGTCTCAATCTCCCGACCTCGTGATCCGCCCGCCTCGGCTTC
CCAAAGTGCTGGGATTACAGGCATGAGCCACGGCGCTGGAGTGCAATGCCGGGATCTCAGCTCACTGCAACCTCTGCCT
CCCAAGTTCAAGCCATTCTCCTGTCTCAGCCTCCTGAGTAGCTGGGATTAGAGGCATGCGCCATCACACCTGGCTAATT
TTGTCTTATTAGTAGAGACAGGGTTTCACCATGTTGGTCAGGCTGGTCTCAGGTGAATTTGATATTCTTAAGGGATGAT
TGATTTAATAAGTCACTGTCTTGTTTAAGCCCAAAGGGTAGTGACTAGTATAATGGAATCTGTATGTTTTCCCAATTTG
GTAACACTGAAAATGATCTGGTCAACATCTTTCTCTTCATTTCTTATTTTCTAAATTTTATGTTAGGGACATTCTTACC
AATGATTTTGAAGTCTAATAATCACTTCATAGACCTAGAAGCTAATTTTAATTTTTACTGAAAATGATTTTCCCCTTTC
TTCACTATTCTTAGTTTGCTTATTTTATATTGTTCTTTCTTAACATCTAATCCAATGACAGGTCTCTGAAGTATCTTGT
CCTATCAATGGATTTACTATTTAACTTTTCAGATGTTTATATATTTCAGAACTGACTATCTCAGTTACCCTTCTTCCCT
CTGCTAATGCCTGCTTTCTTACTGGCTTTTAGCTAATCAGGGGGAGGGAAGGAAAGGTACAGACAAGAGAGAACAGGATATA
AAAATTTTTGTTGTAATTATATATTTTAAAATCAGGAGTTAAAGTAAAAATTTTAGCATTTTCTTTTCTTTATAATATC
CCTGTTATTCTCCAAACTCATGAAGTTTTATAAATCTTCTCATCTGGAGAATAAACTAGATAAATTTTAATTCTTATTC
ATTAATAAATTTTCTTGTGTATTAAATTCTAAACTTTCTTGTAGTCTTTTGCATTAAATTCCCAATTTTCTAGTACACT
GAATCATTTTCTTCCTACCAGTTTGAAGATATTCAAGATGTCATCTACTTAATTGGATTTGTTAATTTTCTTGATGAAA
TTGCCCTTTATTTGACTTAGGATTCTTATGGATGTTCTACTTTTGGATAAATTTGTCACTCACCAGATGTCTTTGATGT
TCCTTGTTCTTTTTTGATAGAATTGTTGTTCAGTGTTCATTCAAAACTGGAAGCAACTCCTTGGTGTTTGGAAGACATA
GGGTATCTGGCACATTCTTTCATAATGAATTTAAAGCCCACCTAAATAGGCTGTCAGTTTTGAGTCTGGGGGCTAGGAG
CCCATCTGGTGAAATTTTTCCCAGTAGGCTCCCTAGAATATTGCTTATTTTCATGGAAGACTTTAAAAAAATTGTACAAA
CTTGGTAAACTAAAGTGATTTTATTCTTAAGAAAATATATATTTTTTTCCATCTGTACCTTTACATTGCTGAGTTTTTA
GAAGCAGTCACTCACCTAATGACCCAGGGTGAGTTATTTATGCCATTTTATCTGCATTTTTTAGTGTCTTCCTGGAGTG
GGCAGCCAAAAAATAAATTTAGAAAAGATGGTACATTTTGTTATGGCACTTCAGAGCTATCTGCATTCATTTTTCCTCA
CAATTACCCTGTAAGATAGAGTATTTTTTATTTGTATGGTTAAAGTAAAAATAACAAATTCCTTCCTAGATGGGCTTCA
ATTCTCTACTATATTCAACCCCACCTAAGCTACGAGATTGACAAAGCTGTTGCAGCTTAGAATCCTAATAAAGTTAAGG
ATGTATAAACTGATTTTTTTCACTGGTATTCACTCAGCAGGGTCCAAGAAGGTCACGGGAGATGCTGTAGGTAAAATCC
TTTGAAAAGCACAAAATACAAAACAAAACCAAGTTCCTGCTTGTGTCTTTATTCACAACAAATTGATATGAGAAGTTGT
AGTTTTAGAGATTTCACTCCTTTGGTCCTTATACCTGCCTTCCAGCTTGTTCTCCTTCTTTACAAAGTTCTACAAATAT
TTACTGAATGGCTACTGTGTGTTAGGCTCTGAGTGATCCCAATGTAAGATACATGTTCTCTCTACCCTCATAGAGCATATC
TGATAACTAAATTTATAATTTTTACAATTTGTTAAAATTATTTCACCACCCTGTCTCCCTAACCCTGATCACCTAACTG
TATCCCATTTTAATCTTTAATTCTTTTTAGGAAGGCTGAAGTTCTGTATCTCTCTGAAGTCTCTCTGTATTTGCACTTC
ATCACGTTGTGGGCACCCTGTTTAGTAGGGATATTTTGAGCTGTGAATAATGTGCTATAATTGACAATTATGCTCATTG
TTGCAGAAACATAGATTATTTCAGAGTAGATAAAAAGAATTTTTCTCAGATAATCAACAATAGTATAAGAATAGCCAAG
AGTATAAATAAATGTGAGAATGACAGGAAAGGTCTGAAAGAACAGCGACTGATCAGCAACCATTTGCTTTAAATCAATC
ACATGTCACATGACTGTTTTAGTGGCCAAAGCCAATCATTAAAATTGTCATCTTGGAAAAAGTTCCACTTTTTTCTGTAC
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Fig. 6.95

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TGTGATGTGTTTGCTATTTCATTTTTGGACAATTTCAAGTTGAAGTTGAATTACAAATGATTACGTCCAAGAAATAATT
GCATATATTGTACTTACCAGTGTAAACACCACAGATACAAAAAAATGGAGAGAAATCTTGTTGCATTGTTAATGAATAT
TAAAAAATTATTCTTACAGACAAAATCTCTCTATAACAAAGTGAAATTTTGAAGAAAAGCATAACTGGTGGAGTTTTCT
ATCAGTAGTATTTGCTCTAGAAAAATGTTTATAATGGCTGCTTATTTTTAACTGAAGGTAATTTTCTTTTAAAATTTTG
TTTAGCTTTTTTTCACTATTGAAATGGCAAATGTTTTGAAAACTAAAAAATTGACTTCAATTAAAATTATTAGTGTGTT
TACATTGTTCCCATGGTCAGCACTTTCAAGGGCAGAACTGGAATTGTCCCTGAGTTATAGTTCTGGCTTTGCATCTGT
GCATCTATGTCTTGGTAGAAGAAGTGGGAGTAAGAGAACCATAAGTAATTAGTTTTATTATCAAATGCTTCCAATAGCT
TGCATAATTTTTTTCAAGGGTAAAATGAGAAAAACAGCATTGAAATCACATTAAAAAATAAAGCAAACAAAAAATCCAA
ACCAAATCATCAAGCAGAAATCATTTTAAAAATGCTATACAATAATCAATTGTGTTCAATACTTCTGCGCCAAAACCTT
TAAGTCTTAAAGCTTTCCTAAATGGAATTAGTCCATCAATAAGCAGATAACAACTTTACTTTTATTGTTGAAAAATGTC
ACTCTTGTCAGTTCACAAGTTTCCCTAACTTGTGCAAATTAAAAGCCATGACAGCAAGGCCAAGAATGGTTCGTTGGTA
TATAGTTAGAGAGACCCTGACCCTGCTTTCTTGTTCTTCCTATTACCCAGGATATGTCATACGCCACACACATGGGGGT
AGGGATACCGCCCTACTTATAGCATAAGAACTGAGAATAAGACATTTAGCTTATAACTCTTTTATGGTAATATTCCCCT
CCCACTGCCATTCTTCCTACTCAGGTAGTCTGGACTTCTGTTTTGGCAATATTGCTTCCGTGAGAAGGATTTGACTGTA
CTTGCAGCCCTCAACATCCTGAATTTAATACAATCTACGATATTTGTTAAGCCCTCACCAACTATTTGACCAAACTATG
ACAGTTACATCCCACGGAACTGTATACCAAATGGTACCCCAGCAGTTCAGAGAGTTAACACACCACCAATTCACTTCCA
GGTTGGGCTTTAAGATTTTCAGAGGATCTTGCTTATGAAATCATATTGGCTTTTAGATAAATGTATTAAAATTACTGAA
AACAAATGATAACACCACAGTACCACAACCTAAACAATCCTTTCTATAAATTAATTTAAAACAAGAAACAACAAGCTTT
AAATGTCATCATCTCTGCTTATTGTATGTCCTTAAAAATATTATTAAATGTCCAACTTTTATTTTTCTAGAAGAGGTCA
TTATATAGCATTGATTTGCCAGCAGGGTTCTATTTGAACATACCAAGAGACCTAGACATTGCTCAGAAACAGTAGTCTC
AAAATAAACAAGGGATTGGAGGAAAAGATGAGAGATCTCCAGTATGTCTGCATATAAGGGCTGAAAAAGTAAAAGTTTC
CAATTGTTTTTTTTTCTTTGCAAGTGCTCATGCAGGGATTCAGAACATGCATTCCTCACCCAACATAAATGAAATAATT
GGCAAGTAGTCAAAGAAGACCATATCCTTGAGTGGGTAGTATTGTTGTCTATTTGGAAAGCATTTACATGTTTTGATTT
CCTGAAACAATGCTGAAAATGTCCTAATGCAGGAAGGGAGAATTGAAAACAACCACCATAAAATGCAATTAGATGTTGG
TAAAAGTGACTCAGAATAGACGTAAGTTAAAACTTTCTGACAGGGTTTTCTAGCACTGGGACAGTATTTTTTGAGGAAA
TTATAAATGGTCTTATTTCAAGATCTTTTAACAATCTGATGAAATATTTATGGTTCTTTAAATTTGTATTGTTAGTAT
CATACTCTGAATTATATAAACATTTAAACATTTTAGTTTATAATCTTTAACTTCTCACTATTATATTTATAAATGTGTAT
ATAATTTGTGCATATGTAGACATTCATGAGGAAGATGAACATATATGTTAATTGGCATCTGCTCATTTAAAAACTAAAGT
TGTATACTTTCATTACAGTAATACACGTCATTCATTAAATTATCTTGTGGCTTAGCTTTACAAATTCTTACCGTTACAT
GACTTTGGGTGAATGACCTCACCGGTGTCTATATCACTCATGTGTAACATGAGAGGAGTAGATTAAATAAACGAAAAGA
TTTCTTTCAACTCCAAAGCTATGACAATGTATTTTCAAGATTGTGTACTTCTTAGAACAGGCTCAATAATAATTTTTCA
CATTATGAACTTTGCAGTCAAAGAATAGGTTCTTCTTAACCTAACAAATGACTATCCTTTCCACCCAAAGTATAAACAG
GATCCTGATTAATAAATTGAGTTCAAAGAATCTCTGCCAAGTATGCAAAATCACTGCCTCTGTTTGTCGGACATTCATT
GCCTCTAAGAATTGATGGAATTGAAAATAACCTCATTTTACTGGGACCTCAGAGAATTAATTATTTAAATTTTTTGCTG
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TTGACCCCTGCATTTCACCTGTTGTCCCACCAAGCCTGTCTGTTTTTCCATTAACAGAGACCTCTGAATTGTTGTGCCA
AATGTGGACAGTGTTGTTTCTTCCTCACTTTCCTGAATTATAACCAGTTCCAGGCGGTAACATGCAACCGAACTTTACT
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GCATTACAGGACAAACCCAGTCCTTTCTGCTTAGTTACTGACCTACCCCCTGTTGCTTTGCTTATCTTCCCACAGTGAA
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CAAGTAAACATAATAATTTACAAAGATACAACTCTGCCCACAACAAAAAACTCCTTTTACAGCGTTATGCAAAGGCATT
TAGACTGGAACATCTATGTTCCAGACACAGACCTTAACCAGTCTTTTGTCAAACTAAAAGAGCAATCTTTCCTCAAAGC
TGGAATAACACCTTTTCTTTTAAAATAACATTTCGTGTCTCACACTCCCAGATGTTTTCATTTAAGACTTTAGAAAATA
AATCATCATCCTCACCAAACCCTTATCATTTCTATAACTCACAGTAAATAATCTCAAGTTCTTTATTTTGGTAAATTAA
CCATAAGGAAAAATCTATACAAACTACCTATTCATTAATTTAAAAAAAAGCACCAGCAAATTTAGGTCGTAGGGCAACC
ACCACCAGATGTCATGTAAACCAGCAAGATGATTCAGCTAAACATTTTAATGAATTGCTAAGGCTGAGTATGGGCTAGC
GCACTCACAGGAAAGACTGGGGAGAACAGCAGCCACCTTCAAACCCACAACCATTTCCCAGTGGAACAAAAGAGTTAAT
TCGTGGTGAGGGGAAGAGAAAAAAGTAATGCTCTATCCCCAGGGGTGGGGTATGGAATATATGCTAGGATTTGCACAAC
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GGGAATATGGTTGAATATGGAAGAAATTCAAGAGACACATTCTCTTAGGGCCCAGCATTAAGGGAAGACCCAAAGCTA
TATCTCAGTATCTACTGTCCTACACAAGATATCCGGCTTTCAGCAAAATATTATGACCATATGAAAAGGCAAGAGAAAG
CACTCCGAAGAGATAATACACATAAACATGTGATATATGGGACACATATAAAAATTATCACACAAGGAATTTAAAGTAA
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Fig. 6.96

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CTATGATTAATATTTTAAAGGTTCTAAAGGAAAAGGTTGACCACATGTGAGATCAGATAGGTAATTTCAGAGGAGATAT
GGAAACTAAGAAAAATCAAATGGAAATGCTAGAAATTAAAAACATAGTCAAAGAGATTAAAAAATGTCTTTGGGCTTGT
TAGTAGACGTGAGACAGCTAAGGAAATAATCACTGGACTTGAAAATAAGTCAGTAGAAATTACCCAAACAGAAAAAAGA
GTGGAAATAAAAGGGAGAAAGAAAGAACATAACAGAGCATCCAAGAACTCTGGTACAATATTAAGTGGCATGACATATC
CATAATTGAAATGACAGAAGGAGAGGAAAGAGAAAAAGAGGCAGAAGAAATGTTTGAAGAAAAAAATCGCTGAAAAAAT
TTCCAAAATTGATGATGGACACCAAATCACAGACTCAAAATCTCCAAGTATATCAAGCAAGATATATACCAAAATAAAC
ACACACGTGCAGAGTCATGTTATATTGAAATTGCTAAAAATCAACAACATAGAGAAAACCTTAAAGGCAACCAGAGGGA
GGGAATGATAAATTACCTAAAGAGAAGTAAGGATAAGAATTACAGCAAATTTCTCCTCAGAAATGTTGTGAGCAAGAAG
AAAAAGGAATGACATCTTTAAAGTATTGAAAGAAAAACAAAACCCAGTAACCCAGAATTCTATGCCCAATAATAATACA
GTTAAAAACAGGAATTTAAATTTTTCTGACTGAACTTTTTAGGTTCCTATTCTGTCTGATGTCCCCAAAGTAATATGCAC
CTATATCCTCATTTTTATTTTGTCTTTCCTTTTTCAAATCTGAGAGGGTAAAGCTGTTTCTTCTATTCAAGACCAACACC
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CTCCTTTTTACCTTAGTTTATGAACTAGACCATCCAGTCCTTTCTGTCACTCCCGTCCATGTATATCTCTTTTGACAAT
TCTAGTATTTATATTTTTCTTTCTAGTAGTTATTGCTATTTCCTTCTGAGACTGCATGTTCCTTAAACAATGCTGTTCC
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<div align="center">Fig. 6.97</div>

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Fig. 6.98

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Fig. 6.99

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GGAAATGAACAGAATATTTACAAATATTTCTCCTTAAGTGATATTTCATTAGGGAGAGGTCTTCCTTAATGCCTGTCTG
AAATAGCACCCTCCTCATTCTCTAAATCTTCACCTGCTTTATTTTCTCTTTGTAGAACTTACCACCTGACACATTTCAC
AGTAGTTTGTTTGTAGACTGTCTTCCCTCTCTAGCTTCATAGGTACAGGGAATTTCTCTGCTCTGTTCACTGATAATTT
TCTTGTACCTAGAACACTGCATGGTACTTAGTAGATGTTCAATAAATATTTGAATGAATGAATGTATAAGTAAAATAAG
AAAATTCATGTGGCCAATAGGTAATTTAAAAATATTCTGCTTTGCTAAAAACCAACAGAAGTAAAAATAGGTAAAAGCAA
TTAGTATTTTCATCTACCAACAATGATTTAAACATATTCAAAAGATATATACCCAATGCTCATGAAGGTGAAGCAAAA
CAAACATTCTTACAAAATTGAAAAACACTTTGCTGGAAAGTACTTTGTGAATATGGTGTCTTTAAAAATGTTTCTATAC
TATATTTTAATTCTATTAATATATTCAGGAAAGCAATCCATAATTAAAAAATATCTTTTGCTGCACAAAAGTCTTTGCT
TCAACAGTATTTATTGTAGTGAAAGAAGTTCAAAAAATTCTAAGTTCCAAAGGTAGGGGCACAGTTAAATGAATTATGA
CAACTCTCTTTCATGGTATATTTATATAAGCATCATGAGTTAGGTTTACTAAGAGCTTTTTTAATATGAAAAAAATGCTA
ATGAAATAAATTTAATTTGAAAACAGCATAAACATTGGAATAAATGACATCTTAAAAGCATACATAGAAAAAATGGTA
GAAATTGTGCCAAAATATTAACAGAACTAGGGCAGGTAAGATTATGGGTGATTTGTTTTATACTTCTCTATACTTTT
ATTTTTCAAGTGTTCCAGAATGAAACTTTTATAATGAAAAAAAGTTTTAAATATTTTAACTGATTTTGTATTATACTAG
TGATAATCCAGAAGTGATTATGTTTTATACAATAGACTATGGCTTTATATGAAGAAATGAATATAGTCTAGTATTGTTT
TTATTATCTAGGAATATACATGTAACTGAAGAATTTATGAGTAAAGTTAATATAAGCAAGTAACTGGGACTTCTGGAG
```

Fig. 6. 10c

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GAAAGCTCACTCTAGGGGAAGCTCTCAAATGTGTTTTCAATCTTGGATTCCAGTCAAAAAAAGACATGAGTTACTTGGA
TTTAATAACCAGATATACATTCTCCTCCTTTAGGACTAGTGAAAAATGGGCACTGAGTGAGCTTGGGCACAGACTAATA
AAGGATATTCAAACACGATAAACAAACAGTAGCGAGGCCCGAGCTACCTGGGCTTAGAAGGCAGCAGGGCCCCCAGAAA
GTGGTAGTAGCAACAATTACTGTGGTTTTATCCTGTGGCTAGCCCAGGTTCCAGACAGAAAGTTCTTCCTGGCCTCTTA
CCCTAGTAACTCTGAGGACTGTACCCTTGATTCTTGGATTGTTAGACACATTTCCACTTCTGGCTTTGGCCCTGCAACC
CTGGTACCTAAATTGAGCAGCTTGAGCACACAAGTTCCTCATTCTTTCATTATGTATGTCCTTGTTAAGAGACTGTGAA
ACATCCAGAATACTAGGGCAGCAAGCCAAAGCACAGCCTCTAATAACAAGGCTTTCCATTAATTTGATTCATTTAATGA
AAAGCTATGTGAACTATTGTAATAGGTTCAAGAACACACCTTAATTCTTGGACTGTTTTTTAGACCTTTAGAAGTCGAA
GGCCTCTGAAATTATATGAGCTTGGGTGTTGAGATAGAGGAAACATGAAAATTTATTCTACCTGAACCTCTGCAGTTAT
AAACTAGCATCGTATAATTTATTTATTTATTAAGTCAAGGTTTATAAGTCATTTCCACAAAGCCTAGCACACAGTGTCT
AGCATATATAGTAGATGCTTGATAAATATCTGTCAAGTGAATTTCAAATACTTAAATTTTGTTGTTAATACATTCATGT
AATGGAGCCATATCATCTCATATGAATGATTGAAGAATACAAAAACTCCAGACTTGAATGCAGAATATATAAAGAACTA
GTACAAATCAATAAGAATGAGACACACATCCCATTAGGAAAATGAGCAAAAGACTTAAACAAGAAGCCCTTCACCAAAG
AAGAAATCCAAATAGTCAATAAGCATATAAAAAGGGGCTCAATCTAATCATTGAGGAAAACCAAACCCATAATTCAATA
CAAGTACACACCACAAAAATTGCTACAATAAAAAAAGATAGACAATGCCTAGTGTTGGCAAGAATGTGGAGCAACCAGA
ACCCTCAATCACTTCCTGTGATAGTGTGTATTGGTAATTGGCTTGAAAAACTCTTTGGCAGTATCTACTAAAGCTGAAC
AAATGCATAACCTATGACCCAGTAATTCTAGTCCTAGATGTATCTCAAACAGAATTGCATGCAACTTTTCATAAAAGAC
TATACAAGAGTGTTTCATGGTAACACCAGTATTAACAGACAAAAGCTGGAAAGTACCCAATGCCCATCAAAGAAAGAAC
CAACTAATAAATTGTAATATATTCACAAGAACCTAAGAATACAACTCTAATACTAATCAGCTGTGAGAATGAATGGATA
GCATGTAGTTGCAACTACATTTTAAAAGATTAATTAATCTCTCAACATAAGGTTGCCAGGCACAAAAGAATGCATACTA
TATGATTCCATTTAAACAAAGTGCAAAAACAGGCAAAAGTATTGTTTTGGTTTTAGAAATCAGGATAGTTGTTACCCTT
ATGGAGTAGGAGAGCTACTGCCTAGAAGAGGGCACATAGGGGACTTCTGGGTGCTGATAATATGCTGCTTTTTGATCAG
GGTGCTGCTTATGTGGTGTACTCTTTATAAAAATGTATTGATGTTTACACTTACGTGCAATTTTTGTATACATATTATT
CTTCAATAAGAAGTTAATAGGGCCGGGTGCAGTGGCTTATGCCTGTAATCCCAGCACTTTGGGGGGCTGAGGCGGATGG
ATCATAAGGTCAGGAGTTCCAGACCAGCCTGGCCAAGATGGTGCAACCCCGTCTCTACTAAAAATACAAAATTAGCCAG
GTGTGGTGGCAGACACCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGGAGACAGAGTT
CTCAGTGAGCCAAGATGGTGCCACTGCACTCCAGCCTGGGCAAGAGACTGAGACTCTGTCTCAAAAAAAAAAAGAAGTT
AATAGAATTTTTTCATTCTTTTCAATTAACTTACCAAATCCTGGTATTGAGCTTACCATGTGATACATATAAATGCAAC
CCCAGAATATCTCCTGATATGATCTCATGATGCCATGGGAAGCAGTAAGTCTTTTTGAAAAAAAAGCACTGTTTCACTTA
TTAAAATGCCAAATACATTTTACCAGAATTTATTATTGAAACAAATCTTAGTGTTATTTTTGACCTGCTGTAATGCTTT
TGTAAAGTACAGGCACAATATTGTATTGACAATCTCTAGGACTTATTCGTCTTACATAACTGAAACTTCATACTTATCT
ATTTCTTATCAAGTGGAATCATGCCATGTTTTTTTCCCTGTAACTAGCTTATTTCACTTAGCATAATGTCCTCTAGGTT
CAAACGTGTTGTTGCATATGGCAGGATTAACTTCTTTTTAAAGGCTGAATAGTATACACACAACCACTACATTTTCTTT
ATCCATTCACCTATCAATGAACATGTAGTTTGATACTATATCTTGGCTATTGCGAATAATGCTTCAAAGAACATGGAAT
GCAAATATCTCTTCAACATACAGATTTTATTTCCTTTGGATATATGCCCCGAAGTAGAAATTCCAGATCATATGGTAGT
TCTATTTTTAATTTTTTGAGGAAGCTTCATACAGTTTTCCATAATGACTGTCCTAATTTACATTTCCACCAACAGTGTA
CAAGTGTTCTCTTTCCTTTACATCCTTACTAACACTTCTTTTCTTTTGTCTTTTTGATAACAGCTATTCTAATAGATGT
GAGGTGATATTGTGGTTTTGATTTGCATTTCCCTGATGATTAGTGATGTTGAACATTTTTTATCTACATGTTAGCCATT
TGCATGTCTTCTTTTGAGAAATGTCTATTCAAATCCTTTGTCAATATTTTAATAGGGTTATGTGTTTTCTTGATACTGA
GGGTTGCCTTTTCACTGTGTTGTTTCCTTCGCTTCCTGGTTGCATTTTAGTTTGATGTAGTCCCACTTGTCTAGTTTCA
CTTTTGTTGTTTGTGCTTTTGATGTCATATCCAAGAAATTATTGTCAAGACTAAGAAAAAAGAGAGAAAACTCAAATAA
ATACACCAACAAATTGGATAACCCAGAAGAAATAAATTCCTAGAAACACACAACCTCCAAAGATTGAATCAGGAAGAAA
TAGAAAACCTTAATAGACCAATAACAAATGAGATTGAAATCAGTAATAAAAAACCTCCCAACAAAGAAAACCCAGAATC
AGGTGGCCTCATTGGTAAAAATTTTTTCTTTTTTTTTTTTTTTGAGACAGAGTCTTGCTCTGTCACCCAGGCTGGAG
TGCAGTGGTGCAATCTCGGCTCACTGCAAGCTCTGCCTCCTGGGTTCACACTATTCTCCTGCCTCAGTCTCCAGAGTAG
CTGGGACTACAGGCGCCTGCCACCACGCCCAGGCTAATTTTTTGTATTTTTAGTAGAGATGGGGGTTTCACCATGTTAGGC
ACACCTGGCCCCCTCATTGGTAAATTCTACCAAACATTTAAAGAAGAATTAACACCAATCCTTCTTAAACTCTTCCCAA
AAAGAAAGAAAATTACTGATAAATATTTCTGATAAATATAGATGCAAAACTCCTCAACAAAACACTAGAAAACTGAATT
CAACAGCGTACTAAAAATACTAAAAGGATGATATACTATGATCAAGTGAGATTTATCCCTGGAATGCAAAGATGGTTCA
TTAATAAAAGTTTTTGAAAAAATTCAACACCTTTTCATGACAAAAACTCTAAAATACATTAGGTATAGAAAGAATTTAC
CTACATATAATAGAGGCCATATTTTTGACAAGTCTACAGCTAACTGAATACTCAGTGATGAAAGCTGAAAGCTTTTTC
ATTAGGCAAGAAAAAGAAGCAAAGGCATCCAAATCAGAAAGAAAGAAGTAAAACTATTTCTCTTGGCAGATTACATGAT
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Fig. 6.101

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CTTATATGTAGAAAACCCTCTTTCTACAAAAATCTGTTGAAACAAGCAAATTCAGTAAACTTGCAGAATATGAAATCAA
CATGTTAAACTCACTTTTGTATCTGTACACTAACAATGAACTATCTGAAAAGGAAATTAAGAAAAAAATTTATCTACAA
TAACATCAAAAAATATAATATTTAGGAATAAACATAACCAAGAAGGTGAAAGACTGAAAACTATACAACGTTAATGAAA
GAAATTAAAGAAGATGCAAATAAATTGAAAGACGTTTTGTGTTTATGGATGGGAAGACTTAATACTGTTAAAATGTCCA
TACTACCCAAAGATTCAATACAATCCTTATGAAAATTCAAATGGTAGCCAAGTGTGGTGGCTCACACCTGTAATCCCAG
CACTTTGGAAGACTGAGGCAGGCAGATCATTTTGGGAACAAAATGTAAAGTTGCTTCTAAAAGAGATTTATGAAGTTTT
TTGTTTACTCTATGTTTAATTATTTGCTGAGTACACTTATCACATTGAGATGGGAATTTGAACAAGATCTTTGTACTTG
ATTAGAGGGAATAAAAACAGCACACTTATCAAATAATCAGTGTGTTATCCCATAATTCAGCTTGTGGCTTGCTGAAAGT
TGACTCTTGTGTAAAAGATTAGTTACTTTTTATTGTTTTAAGGCTAGAAACATAGGTTCTATTTTTGTCAATGCTACTA
CATCCCACAAAGTGTCTATATGAGCCATTTCCAAATTTCCATTTATGATAAGGGGCTGTGATGCATGAGTATACCCACG
TTTTTACTGACATGTGTAGAGACAAACTCATGAGTTTGCCTAGTTACCTTTTATTCTGTATTCACAGATTTCCAAACCT
TCGGGGTTAGGCCATACTTTCAGGGAAGTGGGTGAGCTTTATTATTGAGGCCAAGTCTTCTATCTCTGTTTAGATGCAA
ACCTAGTACTTAGGGACCTTGTCATATCTATTTTCTGCAAAGTACTTTCTGTACTTGTCAAGATCAATAACTGGTTTTA
TAATGACAGAGGACACAGAATTTAGCCTTCAGAACAGAAATGGCTATTTACCATGCGAAAGTATTTTTTTTTTCTGACA
CCATCAGACCAGTGAGCATAGATTTCTCTCTGAGAGACACTTTTTAAACACAAAAATTACCTATTTATCTTGTTGCATA
GCAGCTCTGTCAACTAAACAGTGCATTTAATAATAATGATAATACATAAAAAGTCTAGTATTTCATGGTTTACAAGATA
TTTTCCACATTAATTGTCCCATTGGACCCCCCAAAATTCTATAAAGTGGTCATATAATGTATTATGCCATTTTGTATGG
GGTAACTGATGAGGTAACAGACCAGAGACTGAGCCTAGTTTGCCCAGCTAAGAACTATCAAAGCCAGTCTTCCCAACTC
AGTCCATGATCTCTTACTATTTTACTTCAGCCCTGTAAGATTCATGGTTGTATTTCCTTCCATATAGAACTATGGAATA
ATAATTACTAATTTAGAATATTATATAGTCCATTTTGTACAAATTGTCTAATTTGTATAGTACTATCCTAGTACTAGTA
TATATAATTCTATATACTAGTCATATATACTAGTATATAGAATTATATATACTATATGTATGTATATACACTAATAT
ATATAATTATATACACATATGTATTACATATATGTATATATTATATATACTAGTATATATACTATATATAACATATGTA
TATATAGGATTATATATAAATTATATACTAGTATATATAATATGTACTTGTTATATAATTATATCTACATATACACA
TATATGTAGTACTATATCTACATATACTATATATCTGTATATATATAGTACTAGTATATATAATTATATATACATATAT
GTACACACATATAGGATGCTATGAGAATGCATAGGAAGGGAACATAGTCCTAGAGTATCATAAACTTTCACTCTGTGTC
CAAAGTCTTTCATTAAATGATACCAGAACATAGGATCTACTGAAATTCTAAATGGCCAGTTGGAAGAGGAAGGTCATGT
TTGGGGAACTTGGTTAAAAATTACCTTTAGTGGAAAAGAAAGATAATAACTCAGTAAAAGTAGCTAGTAGGCTGGAGCA
GAGTGTCTATGTTTGCTATGGTTTGAGTGTATCTCCCAAAATTCCTGTATTAGAAACTTAATCCCCAATGTAGCAGTGC
TGATAGAGTGGAACTTTTAAGAGGTAATTAGGTCATAAGAGTTCTTCCATCATGAATAGATTAATGCTGTTATCATGAG
AGTGGGTTAGCTATTGCAAGAGTGGCTTTGGCATAAAAGCAAGCTCTCTATTTCATGTGCTCTCACCGTATGATGCT
TTCTGCCGTGCCTTTGTCAGGTGCTGATACCATGCTCTTGGCCTTCACAGCCTCCAGAACCATAAGCTAAATAAACTTC
TTTTCTTTGTAAGTTACTCAACCTATAGTATTCTGTTATAGCAACAGAAAGTGGACTAAGACAGTGGTTTAACGTCTGG
ATTTCAAAATGAAAACCTGAAAAAGAAAGAATGGGAAGAGGTCTTACAAAAATATCAAATTAGGCTCAATTTTATTGAC
CACAGTTTCTTAAACATAGATATCTCTCATATATTATCAAACACTTATGGTGAAACACTACATTTTTGTTCATAGGAGT
TCTCCATAGCAGAATTCCTCCATCTCCCTTTACTTTGCCCTGAAAAAATCAGCACCCCAGGAATTCTTTATCTTTCAAA
GACGGCAACATATAAATAAGCATTTGAGTTTCCCATACAGGAATTTTTTGCAAGTCTGGCTTAGAAAATGGCCATGTTC
TATTCAAAACTCTTTGAATTTCTGGTTAAATAAAAATGCCAACTATGCCTTTTTCATTAAATAAGTCTATCTTTCATTA
TCTAAATGTATGTCCTACTATAAGTTCCCAATGGCAGCTATGTCCTTGTGCTTAGGGATTGCAAGATGAAGGTTAACTA
TTAACGACAGTGTTTCTGAACCTGAAGTTATTAGAAAATCTTTAGGGACTCCTTGGACTCTTGGAAATTATGTACAAAA
TTATAATGACTCATTTGTACAGTCATCCCTTGGAATCTGTAGGGGATTGATTCCAGAGCCAAATACCAAGACTGCAGAT
ACAAAACCCAGTGGATGCTTAAGTTCCTTACATAAAATGGTATAGTGTTAATATTTAACCTATATTCTTCCATACACTT
TATCTCTAGAATACTGCTAATAACTAATAATATGTAAATTCTATGTAAATAGTTGTTATAAACAATGATTTTTATTATT
ATTTTTGTGGTTGTATTGTTACTTTTGTGGAATATTTTTAATCCCCAGTTGGTTAAATTGTGGATGAAGAACCTACTAA
TATAGAGGGTCAACTGTACATTCTCTTGGGAAGTATATTCAGAGCTTTCATTAGAGACTTAAAAGGAACCTATGTTACT
CCCCTGCCCCACCCCCAAAAAAGTTAGGAACTACTGCTTGGTGGGGGTAATAAACTATCCTTGGAACATCAGATTCTTT
AGATACATCATAGAGAATTGGCATCTAAAGAAATATTCTGTGGTAACCAGCTTCCAAGATGGCCTCCAGTGATCTGCAC
TTTCTGGTATTCAGATTTTTGGGTCATCTCCTTTCAAATTGTATCAGGGTTGATCTCTGTGGCCAAGAAAATTCAGGAG
GAGTTATGATGTGCCACTTTGGAGGTTAGGTTATAAAAACTGTGGCTTCTGTCTTGGTTACAGTTTCTCTTTCTCCAAT
CACTCACTCTGGAGGCAGCTAGCTGTCAACTCACAAAGACACTCAAGCAGCCTATGGAAGAAGGCCACATGGTAAAATA
TGGAGGCCTCCAGCCAACAGTCAGCAAGGAACTGAGACAAGTCAACAACCATGTGAGTGACTCGAGAAGTGCTTCTCTA
GCTCCAGTTGAGACTTGCAGTAGCAGCAGCCCTCAGCTGGCGGCTTGACTGCAATCTCTTGAGAGACCCTAAGCTCTCCT
GAATTCTTGATCCTTAGAAACTGTGTGAGGTAAGAGATATTTGTTGCTTTAAGATGCTACATTTGGGGATAATTCATTA
CACAGAAATAGATATCTCATTCACATTATCTTGACTGGTCATGATTAAAAGAAAAGTGAATGTAAGAAAATAAAGTGTT
TTTAATGCTGACCTTCCCTGTTAATCCTAGAAAATTAGAGTTTGAAATAATAATGTCATAGTCACTATTCCTTTAATCT
TGTTGGTAAATAATGAATGCAGCGTGGCCCATTCACCGCCAGCACTTGGTCACCATTGTGATCTACACAGCAAGAAGCA
GCCTAACGACCTGTCTGTTGAAACAAACAAGTTTTCTTTTAAGTGATTTCTTTGTTTCCATTTATAAGGCACCAACTTT
CAAAGGTGTTCTGGGAAACCTTTCTTGTATTTCTTCTAAGCAAAATCAATTCAACAGAGAGTTCACGCTTTGCCTGTGA
TCAATGGGGAAGTACCAGTGTAGCTTTCTTTTTTTTTCCTATAGGGCTGCTCATAGTCCTCCGATAGACTTTACAGCTGT
TAGTTTTGCTGCAGTAGTGACTTGCTAAAATGGTGGCTCATTTGAATGGTGCTTGTATTAATTTACACTCCCACCAACA
GGGTACAAGGGTTCCCTCTTCTCCATATCCTCCCCAATATTTATTATCTTTTTTTTCTTCTTCATAATAGCCATTCAACA
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Fig. 6. 102

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GGTATGAGGTGATATTGTGGTTTTGATTTGCATTTTCCTATGATTAGTGATGTTGACCACTTTTTCATATATCTGTTGG
CCATTTGTATGTCTTTTAAGAAATGTCTATTCCGATCCTTTACCTTTTTAAAAAATGAGTTATTTATTTTCTTGCTATT
GAGTTCTGTATTTTGAATATTAACTTCATATCAGGTGCGAATATTCATATCGGATGCAAATATTTTTTTGTTATTGTATA
GGCTGTTTCTTCATACTGTTGGTTATTTTCTTGTGGTGCAGATGTAAGCTTTTAGTTCGATGCATTCCCATTTATGTAC
ATTTGCTTTTGTTTCTTAATACACCTTTGTATTGAGTAGATCAGATCCTTTATGAAAGCAAGAAGGGATCAATGATTAC
CTGATGGAGAAGAAGAAAATTGTGAGGAAAAGGGTCAATGAGGACATTCTTTGCTGTTTTGCAATTTTCCAATGAGCTG
GTCTTGATATTATGTTTGCGTAAATAGCTTGGTCTGATCTTGGACACTAAATTCCAATCCAGCAGGTTCTATCTGGAAG
GAGACTATATGATGGTGGAGACACAAGTCTGAAGGTGAAATATTGCACGATGTAGAAATAGATCAACCATGCACATTTA
TAGAACATCTACTACCAGGTGCTAGGTTCTGTGCTGAGCAATAAACATAATTCCTCTGTAATTTTTGTTTGTTTGTTTT
GTTTTTGAGATGGAGTCTCACTTTGTTGCCCAGGCTGGAGTGCAGTGGCGCGAGCTTGGCTCACTGCAACCTCCGCCTC
TCAGGCTCAAGCGATTCTCATGTCTCAGCCTCCTGAGCAGCTGGGACTATAGGCGCACGCCACCACACCTGGCTAATTT
TTTGTATTTTAGTGGAGACGGGGTTTCACCGTGTTGCACAGGGTGGGCTTGAACTACTGAGCTCAGGTGACCCGCCTGC
CTCAGCTTCCCAAAGTGCTGAGATTACAGGCGTGCGCCACCACACCCAGACTCCTCAGTAATTTATAACCTAGTTGAAA
GATTTGGACATATGTATCACAAGATACCTATGAACAAAGGCAAGGGCATATCTTATTTATAAGATGTTTAGATAGATTT
CAAAGGAAGTTTTTCAGCCAAAAATTCCATCATGTTTCCATTTTTGAAACTAAATACCAACATATCTCAAATTCAGATC
TCAATTACTTCTACTGGCAAAATGTAAAGACCATTCCCTCATTCATTTGTTATTTCTCCAAGTATCCTGAGTACTGGAT
ATCTGAAAGGCTCTCTGCTAGGTACTTTGTAGGGTAGGAAAACCTCAAAGGATGTGTGGAAATGAAAAAAGTTTCCAAA
TACTTCTTCAAATTTTGTGAAACTTATCAACTGAAACAAGGTTGATTTGGGTCAAACAAGGTTTGTGAAGTAAAAGCAA
AGCAATTTTAAATAGGCTAAAACCCCATGGGTTGCAATGAAAGCAATGTTAAGATGACTCTTAAGTAACTTAGAACTGT
TGAGGACTTTGGTAATTAAAATCTCTTCCTCATAGCTCCCCCAGCAATCAGGAAACAAGGATAGTTTGGATTAAGGTCT
CATAAATAAACATACAGCTTGTCAGTCCTTGGAGATGGAGAAGTCATTCTTGAGTGTGCCACATGGAGGGCTCAGAGAT
AAGTGATGACCCTCTTGTCACTCTGGCAGAAAATATATTAACTTCTTTAAACCAAGAATTATAGTGATTTCAGTGGTAC
AATTACAAGGAGTGACTTCTGGGACTTGCATAAATCAAGCTTATTTAAATAGTGTTTCAGAAAAGAACATATGCTACTA
TTAAAGAGTTGGAAAAAAACAACTGCAATCCCATAAGATAAAGTTAGGTGAGAATATTCATATTTGTTTCAGATACAAG
TCCATTATTTATGTCAAATAATTAAATACCTCTTTAGATATCCATTCCAGGGGAGGCTCTTGAGCCTTTCACCTCTCTC
ATGTCCAAACTTACTAGTTATTTCAATACTGAAATAATTCCAGTTGTTCATGAATTATTTGATGAGATTTAGAGTGATC
TATATTAGTTAATTCATTTATCAGATTTGTTGAATACCTGTTATGTGCACTGGATGGCAATTGGTGCCATGTTGTATAT
ACATTGGACAAAGGCAAAATTCTGTCTTGGGATGCTTAAGTATAGTGAAGAAGAAATGACAAGTGCAAAAATATCTAATT
CCAAAGCTGAGAGAGGAGAGAAAGATTATTTAAGTTGGTATGGTCAGATAAGTAAAACAGTATTTTAACTAAGCTTTGA
GAAATAGATAGAATTCTACTTGGAACATTGAGGAGGACTCCATGGAAAAGTAATAAAAATGAATGAAGACCAGAGCCAGG
ATATTCCCCATGGCTGCTACCTTGTCCAATTCCCTCACAGTCCTGCCTGCTACAGAAAGCGTAGCAGTTTTCTCTTTAT
CGATGATGAGCAATAGAAAGAAATGCTTCACTCTGCCTAGGCAACAGGCACATTTAATATGGGATTTCTGTTGACAGTG
CCTTAAGCCATGGAGCTAGCTAATCAGCACCTTACTCATTGTATGACAGGAAAGAGAAGAGATCTGGGAATGAGCAGAT
GACCAAAAGCCTTATCTTGGCCTTTGCACCTGGAGGTCACCGCTGCCGCTGGGAGGATGAGTGGAGGAACTTGGGATGT
ACATGATAGGGTCAGCCAGCCAGCAAATGAGTGTTTGCAGAGTGACTAGGGAGGAGCAAAGGAGAGCTTTCACTGCTGT
AATAGTCCAGAAGTTGCTGCTGAATCAAGCGAAAAGAATAAGCAAAGTGTTTCAGAAGTCAGCCTGCTTCACATCTTGT
TGTTCATTTATTCCCTCTATTCTGACCACTGAGCCCACCAAGCTCTCCTTCTTGATATAACTTTTATCATATTTAATAT
TAGGGCAAGACTAGTTTGGGGATCTTATGTGTCTAATTTATATAAATGTAGCAAATAGTCTTTTTGATGGTAAGATAAAC
TAGTGAATTATCTCTAACATAATCAATAAATTTTCTTATTGCTGGGTGTTTCTCAACCATGGTTTCGCATTAAAATCAT
CTAGCGAGCTTAACCGCCCCCTCCCCAAAACACACACACATACACACACACACACACACACACACACACACACACACAC
ACACACACAATTCCCAAGCTGCTCCTAGGTCATTTATACCAGAACTCAGGTTAGGACTCAGGCAATGGCGTTCTTTAAA
GCTCTGCAGGTGATTCTAATGTGCCGCTGGAGTTGACAGCCACTGTTCCAAATGTCTTGAAGATGAATAATAAAATCCA
GATTGGTAGTGAGTAAAAATATGTGTGTCTAATGTGTAAGTCTCAAATTATTAACATTTCTCAACAATGTATTTCCA
TTTTAAAAATCATATTTTAAGGAATGACCTTCAAAATTTTGTTATAGAATATTATTTTAGTGATGTTTCTCTGTTAGTA
ATGTGAAGCATGTTGCACATAAACTGTCTGGAGAATGTGGCATTATTTGCAAACATGTCAGAGAATGCAGCAGATTTTA
CAAAGGTTTATGAAAACAATATGCTTCATTATTTGTTCACATAAAAAGTAACAAAATTAGCTTCCTGTTAAACAGAAAG
CCCATAGAGTAGAAGAGAAAAGGGTCTGGTTCCTTATTCACTCCCAGCTACCGTGAGGGTGTCTTATTGCCCAAATCCA
GGACATCTTTGACTTTTTCTTCTTGACTGTCTAATCTAATGTCATGTAACTATAATAATTCAAAATAAAAGTAGTTA
AAATTTAAAAATATATTTAAAGACTATCAAGATCTGTTGATTCTACCTCTGCAAATTTTCTTTCACACCTTCATCATTT
GTCCATTTTTGTGGCCACAATCCTAAATCAAACTCCCTGTTACCTCCTGCCTTGGTAATTGTCATATGCTCCCCATGCA
AATTTTTTTCTCAGACATTGCCTCTGCCAAAGATCTGATGGCATCATGTTTTTCACTCATCTTCAGTGGTTCTCTGCTA
CCCACAGTAATTTTACAAAACATTAGCTGGGCATTCAGGTTCTCCGTCATCTGGCCCCAACCTTATTCCCAAGACTTCT
CCCCTTTGTGTATAATACTATGAAATGATCTAACTGTTTGGTAGTCCTGGACATGGCTATGTTCTTTCTGCTGTCAGAA
CCCTGGCTCATGCTGGTGTTTCTGCCAATGCCTAAATCCCACCCAGTATAGAGGGCTCAGATTTCATCTGCTTCACAAA
GCCCTGAACTACAGAGTTAAAAGTAATGTTTTTTCTACTGTAATCACATCGCAGCACATTATCTGAACCATTTTAAAAA
TATTTCCCCAGAGTCACTTAATCTTTCTGAGCCTCTGTTCTTTTATTCATAAAATGAGAACAATAATACCTACCTAAAA
GACTGCTTGTGAAGAGTATGATTATGTGTGTACAAAGCATAGTGCGCAGTAGACAATTTTCAAATCTTTCTTTCTTCTC
TCTCCTTTCCTTCCTTCTTTCCTTCCTTCTTCCCTCCCTCCCTCCCTCTCTCCCTCCCATCCGTCCTTCCTTCCATCCT
```

Fig. 6 :103:

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TCCTTCTATGTATTGTCCATTATAACTTTGTAATTTCCTTTTGGGCAGGATCCTGTGATTGGTAAATTTTTGTTTTCCA
TGCAGTTTCTAGGCTAATGCTTTGCATGTGTAGGTACTCAATGTAAAGGTACATGTTTTAAGTGAAAGGACCCAAAATT
CATGACTTGCTGTACAAATGATGATCAGGGTTTAGGAGAGGAGATATAGACCAGAAATCTAGTTGTTGTTTTGAGTTAT
TATTATTACTTAAATTATCCTATATTTTTAGGTTAAAAACTCATTGAGCAAATCATTATCTTGATGAGAAATCAAGAGT
CAGGTTAAGTAAATTTATTTTGGTTAGATGTCTTCTAAGCATCAGTTAAGGATTCAAACCAAGGCCTCTCCCATGTGAA
AACATATATTGTTTCAGCTTATCAGGATTGGTTAGATTATCTCCAAGATTATGTCTATTTAAATGGCAGTTATTGCAGA
TAATATCAATGTCCTAGGTCCACAGGAAGGCAAGAAGTAGACTTAGCAGTAAGTTGCTGAGCAGGAATTCTGAAAAGGG
TGACCAGGATCAGGTGAAGCACGTCCAGAGAGTAAAGGGGGTAAGCAAGCTCTTGTTATTAGCCCATATGTACTTACCC
TGGGCTCACCGAAGAGTCCTAAAGCAAAGCTTGCTGTGGCTGCAACCTAAGGATTGGAACAAGTCTATAATCCTTCAAG
AGCCAAGTGTGGATTTCTCCCTTCTACTCTCTGCCTCAGTATATTTTCCATGTTTTCTTACTTGTTCTGTTGCTGGAAG
TTTCCTTCTTTCCAAGAGATACTCAGTTTTAAAGAAGCCACAGGTGTCTTTGCCAAAGCTTGCTCTCTGCATCCTGTTA
CACTCTTAGAGAATCCCCTGATGACGTCATTCAAGACAGCCTACTTTCGTAATTGCTGTGGAAGGGGCAGAAGGTCCTG
CCACTACATTGCTTTCTGTCACCCACCCCCAAGATGGAAGAACAGGTTGTCTCTGAGGAATTTTGATTTGGGGCACATT
GATTCCAGTCTCTCTTTACTGGAGCTTGAAATAGGGGGGCCAATTTTCCTATAAAAAAGAGTATGAAACTGATATCCAA
AGAGACACACGATGAGAATCTATGAACTCCACGAAAAAAGAGCTGATAATTATAATTGTCTTCATTCTTGGTAGCTTTC
TAGATGGGTTCTAATCCCGCAAGGGGCTTAGTTGCCTTCCTAGCTTTGGCGTCTATAAAATAGTCCTATAACCTTTTAA
TAAAGGTTTAATAAAGGCCTAAGCCCACATGAGTGAGTTTTATACATTCAAACAATCTCCTAAGTGTGAGAGTTAATTA
ATTTTTAAACTATTCTCGAAATTCAGCCTTAATTTGCTTTTGCTTAAGCTGGGTCACTAATCTGTGCTGAGGACCCATT
ATCCATTCTTTGTTAGGTTCTACAGTTTACCTCTAGGGTACATTTCATAGTCCTTAATGTCTCTTCTGTATAACTGATT
ATTTATGGAATTTCATGATGCGTTAAATACTTTGGCTGAGTAGCAAACACATTTCATCTAATCTTTCAATTCCACAACA
GTACTACTGGGCAACATTTTTATTCTTGGTGGATACAATTTCTTTCTTTTTTTTTTTTTCTCCTTTTATTCCTTCCTCC
TTTTCTCTCTCTTTCTTTCTTTTAAATGTTTGTGATATCAGGATATAAAGAGCCAGGTAGAAGAGCACAGAATTAGAAA
CCAGAAAACTGAGTCCTAGTCATCTCATTTCTCCTGGCTTCACTTTTACCCTTAAGTGAGGAGACTATACCCGAGTTCC
ACCTAGCTTGCAAATTCTATAATTCAATTATTCCATCACCATTCTGAAATATACCATGTAATTATAGAAATTACTAGAA
AATTTTTTGAAATACACATTTCCCAAATTTATTTGACCATGGAATACTTTTTAAATAATTATATATTGGTAGAACATAT
ACGATAGTTCATGGATAATATGCACTTTGATTAAAGAATACAAAAAAATGGTCTGCAACAATTAATTGCTTCAAGAA
ATGATTAAAAAATTCATTCATATTCTAACTTAATTACAGGACCAAAACAATAATACAAATTAAATAGATTAAGTCATTT
TATTTTTATTAAGTACATAAAAAAGACAAAAATGGATGAAATGATGACAAGTTGCATAACATGGAGCAGTGATGATTAA
GAGGCAGTGTATACCAGTAAAATTAGTTGGTAAATACTACTAATAGATACTTAGCATTGACATTAAAATTAATATTTAT
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GAGTAGCCTATTTTTCCCTTCCTTTTCCTCTATTGCTCACGTGCTTACATGCATTATTATTGGGTTATATATTGAGTTA
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GAACAGACACTTCTCAAAAGAAGACATTCATGTGGCCAACAAACATATGAAAAAAAAAATCACTGATCTTTAGAGAAAC
CCAAATCAAAACCACAATGAGATACCATCTCACACCAGTCAGAATGGCTGTGATTAAGAAGTCAAAAAACAACAGATGC

Fig. 6 |104.

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TGCTTATGGAGAAAAACGAATGCTTTTACTCTGTTGGTGAAAGTGTAAATTAGTTCAACTATTGTGGAAGACAGTGTGG
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ACAACAGGGATATGCCTGAAAGTGCCTTTACCCATGTCATGCATTTATTCACAATGAACACAAAATTTACTTGAGTAAT
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CGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCTACTTGAGTAATATTTTAAATGTAACCATAGTGAACTGT

Fig. 6.105

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CCAATACTAAAATTTGTGCCTTTGATAATATTTATATTATGAATAAAAATATGCTCTTTTAACCATGTCCTCATCTATT
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/ATATAAGTCTTAACTGTGTATCAGTGTAAATGTTTTCAAACTTAACAATATTAAAACACCAACCTGGGACCCATAGGCA
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CTTGACTGATACATCCCAAGATCATCTTTACTGACTTAGGGTTACAGTTTTGGATAAGTTATCCCAATCTCAGGAGTTT
AATATGCCTTATTGCAGATCTTTTCCAACTTCTAGGTAAGAAGTAAACTCATTCCTAATCTTACTACTTGGACATAGTC
TCTCCCTGCTACCATGTCCTCACAGGACCTCTTCCTTGGTTCAGTATTGCAACTATCTCCCAGTTTTCCTCTTTCATCT
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Fig. 6.106

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CTGGCTTCTCCTTCTTTATCTCCCTTTTAACTTCTATTTGACCATTAAGTGTTGGCAATGCCTCAGGCGTGGTCCTCCT
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CCCTCATCCAATCTGTTCTCCATATTGCAGTCAGTCACCTGTTTGAAACAGAAGTCCAACCTTATCACTCACCACACAC
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GCTTCTTGTACACCGACTTTCCACCCAGTGCCTCAGGGCACTTTCTCATGCTGTTCTCTCTGCCAGGAACACATGCTTC
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GTGAAAATGGACTAATACAGTAAATTGGTACCAATAGAGTGGAGTGTTGATGAAAAGATACCTGAAATGTGGAAGCGAC
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GCAGCAGAGGTGCCCAAGACCATGGGAACCCACCTCTTGCATCAATGTGACCTGGATGTGAGACATGGAGTCAAAGGAG
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GAAATGAGTTAAGACTTTCAGGGACTATTGGGAAGGCATGATTGGTTTTGAAATGTGAGGACGTGAGATTTGGAGGGCC
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TGTGGGAGGCATTTGGTGGGAGATAATTAGAATCATGGGGCAGTTTCCTCCACACTGTTCTCGTGGTCGTGAATAAGTC
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AGATTAAGGGTGGGTCTGCCTTTCCCAGCCCACTGACTCAAATGTTAATCTCCTTTGGCAACACCCTCACAGACACACC
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GGTCCCATGTATATACTGATGACACCCAAATCTCTTCTTGAATGACCAAAGACCAAACTTTCTGAGTCACAGATTTTTA
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GCACTCACTTTAGGGGTCTTACAGTCTGGTGCTGTGGTTCTCCAACTTTAGTGTGTATCAGAATCTCTTGGGGAAACAT
GTTATAATATCCTGGGAGGGCTTCATACCAGGACTCCGTCTTCAGAGATTTTGTTTCAGTGGAAATGGATTTAAAAGGC
AGTGAGCTGCATTTTCATAAACACCACTCTTGAAGATGATAATGCAGGTTGTTTGAGAAACACTGATCTAGTGGCTGTG
GAATTGATGTAAGTGTCAGGCAAAAATGGTCAAAAGTAGGATAGTTGGAAAGTAAGAGGTGGAATTTCAATTCTGAATG
GCCATTTGAGCCCACATGTTTTATTTATTTATTTATTGCAGATTCTCAGTAAACACACACACACACACACACACACACA
CACACACAACCTACATCCATCCTGAAAAACAGGAAAGGTTTCCATGCAGAGGTCAAAAACTGTGACGTATATCTGCCAT
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Fig. 6.108

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ATATAGTGCCTGGAGGACCAAGCTGAGGAAAGAAACCATCAGCTTAAAAACCCAGGCACAAATTGAAAAGCATTCAAGA
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AGCATGACAGTCAGCATAAGTAAACCTCAACTTAAACAGTCTCAAGGAGCCAGAGGTCACCAGATAAGCCGCCTAGGGA
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TGCAGTGGCCTAGAAACAACAACAACAAAAGGAGTGATTTTCAGGAGAATGTGGTTAAATTGCCACAAGATATACAAAT
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CCAGAAAGAATAGTAACTATTCAAGATGGCGAGGAGTAAGGTGATGATTGATGATGGATCATGTGTTGTGGGATCAGGG
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GAATGTGTTTGATATAGACTTGTGAGTGGTAATCTGGAATATATCTAGTATCTAAAGATACTAAAGAAAAACAAAGGGC
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GAACTGTTGTGAGGCATCCTAAGTATTATCTAGCCATCCATCCATCCATCCATCCATCCATCCATCCATCCATGTATCT
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CAAGTAAATTGAGGATGTCTTTATTCTGCATTTGACTAATCTGAATTAGATAGTCTTAGCCATTAAAACTTTAGAAAGC
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CCAGTAAATATTGCCACCATGTTGCAGAACAATTTTTGGACAACCAGGCATATCTTTGGAGTTGAACTATGTGGAGGTA
CTACTGGTGCTGTGAGGGATCACCTGTAAACCTGGCAGTTTTAGGTGGCCTCTAGACGTTATAGGGTCAAGGGAGAAAT
TTTTTTTGTTCTTGTTGTTTAATACTGTGAGTACATTTAAATGCTCATGTAAAAGAGCCAACTTAGAGGGAGTGGTTGA
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Fig. 6.109

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AGACACAAGAGAGATAAGAGCTGATTGTTATGGCAAGGTCTCTGGCTAGGCAGAAGTGAATGGGTCGAAGAGAACAGAT
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CCATATCAAATGAGAACAAAACTAATAATTTTATTAACTTTAGGTTTTTATTGTATTAAATAACATCATTTTTATTTAC
TTTATCACAAGGTATATTTTTCTTTATTATATGTCTTTGTAGAAAACCTAGTAACATTCCTGTGTGACTGAATAGATTA
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TATGCTAATTAGTTAAATGGGGGAAGATGTATGTCCAGAATATTTGCTCTTAATAGGACATCGTAGTGAAAACCATTCC
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GTTTTTGAAAATACACAATGGATTATAGCTAACCATGTTTACCCAACAGAGCTACAGAACACCAGAACTCATTCCTCTC
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GGTATTTCTAGTTCTAGATCCCTGAGGAATCGCCACACTGACTTCCACAATGGTTGAACTAGTTTACAGTCCCACCAAC
AGTGTAAAAGTGTTCCTATTTCTCCACATCCTCTCCAGCACCTGTTGTTTCCTGACTTTTTAATGATTGCCTTTCTAAC
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TTTTCTTGTAAATTTGTTTGAGTTCATTGTAGATTCTGGATATTAGCCCTTTCTCAGATGAGTAGGTTGTGAAAATTTT
CTCCCATGTTGTAGGTTGCCTGTTCACTCTGATGGTAGTTTCTTTTGCTGTGCAGAAGCTCTTTAGTTTAATTAGATCC
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Fig. 6.110

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TATTTGTCAATTTTGGCTTTGGTTGCCATTGCTTTTGATGGTTTAGACATGAAGTCCTTGCCCATGCCTATGTCCTGAA
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GTAGTATAGTTTGAAGTCAGGTAGCGTGATGCCTCCAGCTTTGTTCTTTTGGCTTAGGATTCATTTGGCAACGCGAGCT
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CATTGAATCTTTAAATTACCTTGGGCAGTATGGCCATTTTCACGATATTGATTCTTCCGACCCATGAACATGGAATGTT
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GTACCTCTGGTAGAATTCGGCTGTGAATCCATCTGGTCCTGGACTCTTTTTGGTTGGTAAGCTATTGATTATTGCCACA
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TGTGGGATCATTGGTGATATTCCCTTTATCATTTTTTATTGCATCTATTTGATTCTTCTCTCTTTTTTTCTTTATTAGT
CTTGCTAGCGGTCTATCAATTTTGTTGATCTTTTCAAAAAACCAGCTCCTGGATTCATTAATTTTTGAAGGGTTTTTTG
TGTCTCTATTTCCTTCAGTTCTCCTCTGATTTTAGTTATTTCTTGCCTTCTGCTAGCTTTTGAATGTGTTTGCTCTTGC
TTTTCTAGTTCTTTTAATTGTGATGTTAGGGTGTCAATTTTGGATCTTTCCTGCTTTCTCTTGTGGGCATTTAGTGCTA
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GAATATCTTTATTTCTGCCTTCATTTCGTTATGTACCCAGTAGTCATTCAGGAGCAGGTTGTTCAGTTTCCATGTAGTT
GAGTGGTTTTGAATGAGTTTCTTAATCCTGAGTTCCAGTTTGATTGCACTGTGGTCTGAGAGACAGTTTGTTATAATTT
CTGTTCTTTTACATTTGCTGAGGAGAGCTTTACTTCCAACTATGTGGTCAATTTTGGAATAGGTGTGGTGTGGTGCTGA
AAAAAATGTATATTCTGTTGATTTGGGGTGGAGAGTTCTGTATATGTCTATTAGGTCTGCTTGGTGCAAAGGTGAGTTC
AATTCCTGGGTATCCTTGTTAACTTTCTGTCTCGTTGATCTGTCTAATGTTGACAGTGGGGTGTTAAAGTCTCCCATTA
TTATTGTGTGGGAGTCTAAGTCTCTTTGTAGGTCACTCAGGACTTGCTTTATGAATCTGGGTGCTCCTGTATTGGGTGC
ATATATATTTAGTATAGTTAGCTCTTCTTGTTGAATTGATCCCTTTACCATTATGTAATGGCCTTCTTTGTCTCTTTTG
ATCTTTGTTGGTTTAAAGTCTGTTTTATCAGAGACTAGGATTGCAACCCCTGCCTTTTTTGCTTTCCATTTGCTTGGT
AGATCTTCCTCCATCCTTTTATTTTGAGCCTATGTGTGTCTCTGCACGTGAGATGGGTTCCTGAATACAGCACACTGA
TGGGTCTTGACCCTTTATCCAATTTGCCAGTCTGTGTCTTTTAATTGGAGCATTTACTCTATTTACATTTAAAGTTAAT
ATTGTTATGTGTGAAGTTGATCCTGTCATTATGATGTCAGCTGGTTATTTTGCTCATTAGTTGATGCGGTCTCTTCCTA
GCATCGATGGTCTTTACAATTTGGCATGTTTTTGCAGTGGTTGGTACTGGTTGTTCCTTTCCATATTTAGTGCTTCCTT
CTGGAGCTCTTTTAGGCCTGGTGGTGACAAAATCTCTCAGCATTTGCTTGTCTGTAAAGGATTTTATTTCTCCTTCACT
TATGAAGCTTAGTTTGGCTGGATATGAAATTCTGGGTTGAAAATTCTTTTCTTTAAGAATGTTGAATATTGGCCCCCAT
TATCTTCTGGCTTGTAGAGTTTCTGCCAAGAGATCTGCTGTTAGTCTGATGGGCTTCCCTTTGTAGGTAACCCAACCTT
TCTCTCTGGCTGCCCTTAACATTTTTTCCTTCATTTCAACTTTGGTGAATCTGTCAATTATGCGTCTTGGAGGTGTGCT
TCTTGAGGAGTATCTTTGTGGCGTTCTCTGTGTTCCTGTATCTGAATGTTGGCCTGCCTTGCTAGATTGGGGAAGTTC
TCCTGGATAATATCCTGCAGAGTGTTTTCCAACTTGGTTCCATTCTCCCCATCACTTTGAGGTACACCAATCCGACATA
GATTGGTCTTTTCACATAGTCCCATATTTCTTGGAGGCTTTGTTCGTTTCTTTTTATTCTTTTTTCTCTAAACTTCCC
TTCTCGCTTCATTTCATTCATTTCATCTTCCATCACTGATACCCTTCTTCCAGTTGATCGCATTGGCTCCTGAGGCTT
CTGCATTCTTCACGTAGTTCTCAAGCCTTGGCTTTCAGCTCCATCAGCTCCTTTAAGGACTTCTCTGTATTGGTTATTC
TAGCTATACGTTCGTCTAAATTTTTTCAAAGTTTTCAACTTCTTTGCCTTTGGTTTGAATTTTCTCCTGAAGCTCGGA
GTAGTTTGATTGTCTGAAGCCTTCTTCTCTCAACTCGTCAAAGTCATTCTTCGTCCAGCTTTGTTCCATTGCTGGTGAG
GAACTGCGTTCCTTTGGAGGAGGAGAGGGGCTCTGCTGTTTAGAGTTTCCAGTTTTTCTGCTCTGATTTTCCCCATCTT
TGTGGTTTTATCTACTTTTGATCTTTGATGATGGTGATGTACAGATGGGTTTTGGGTGTGGATGTCCTTTCTGTTTGTT
AGTTTTCCTTCTAAGAGACAGGACCCTCAGCTGCAGGTCTGTTGGAGTTTGCTAGAGGTCCACTCCAGACCCTGTTTGC
CTGGGTATCAGTAGCGGTGTCTGCAGAACAGCGGATTTTCGTGAACCGCAAATGATGCTGTCTGATGGTTCCTCTGGAA
GTTTTGTCTCAGAGGAGTACTTGGCCGTGTGTGGTGTCAGTCTGACCCTACTGGTGGGTGCCTCCCAGTTAGGCTGCTC
GGGGGTCAGGGGTCAGGGACCCACTTGAGGAGGCACTCTGCCCATTCTCAGATCTCCAGCTGCATGCTGGGAGAACCAC
TGCTCTCTTCAAAGCTGTCAGACAGGGACATTTAAGTCTGCAGAGGTCACTGCTGTCTTTTTGTTTGTCTGTGCCCTGC
CCCCAGAGGTGGAGCCTACAGAGGCAGGCAGGCCTCCTTGAGCTGTGGTGGGCTCCACCCAGTTTGAGCTTCCTGGCTG
CTTTGTTTACGTAAGCAAGCCTGGGCAATGGTGGGCGCCTCTCCCCCAGCCTCGCTGCCACCTTGCCGTTTGATCTCAG
```

Fig. 6.|III|

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ACTGCTGTGCTAGCAATCAGCGAGACTCTGTGGGCGTAGGACCCTCCAAGCCATGTGTGGGATGTAATCTCCTGGTGTG
CCGTTTTTTTAGCCCGTGGGAAAAGCGCAGTATTCGGGTGGGAGTGACCTGATTTTCCAGGTATTGTCTGTCACCCCTT
TCTTTGACTAGGAAAGGGAACTCCCTGACCCCTTGAGCTTCCCAAGTGAGGCAATGCCTCGCCCTGCTTCGGCTCGCAC
ACAGTGTGCTGCACCCACTGTCCTGCGCCCACTGTCTGGCACTCCCTAGTGAGATGAACCTGGTACCTCAGATGGAAAT
GCAGAAGTCACCTGTCTTCTGCGTCGCTCATGCTGGGAGCTGTAGACTGGAGCTGTTCCTATTTGTCCATCTTGTCTCT
TCCTCGATTTTTTTTTCAGGTTTTTAATTTTTTTAATTCATATTTTGATATTCTTCTTAATGCTAGATGTAAGTAAATT
AGATTTTTCCCTGTTAATATTTTATAAACCATTTTTTCTTTTAATTTAGTGAGAGTGACAGATAGAATGATTTACTCTG
AATTACTCTTCCTCTTGAAAGATTAAAGCTTGCTCTTAAGTAAAGTTTGTTATGCCTATCTGTTTTGTCTTCGGTTTAT
TTTTTTCCATGGAGCTGCTTCTTCCTTCTTACAAAATGAAGTTCTGGAGGACCAACAGGTCACTACATGTATTCATAGT
TATATAAATTCTAGCAATGGTAACAGTTTGGCTCATGTTGGGGCCTGGCTACATGTTCTTCATTCCTGTTTAATAAATC
TCATCTTTCTACCATATGCTAGTAATATATGGCTGGAATGCTGGTATGGGAATTACTCCCCTCTTTGCTGAAATAGTTC
ATCTCTTGTGTCCTTTTCCCCTTTTTATTCTTCTATTCTTCTTAGCCTAAGTGATGGTTGTGATTGAATTCAGAAGTTT
GATATTCCTACTCGGTTCATGTCCACCCAAAAGCAGAGAGGAGCCCATCATCATCATTTGTTTTGAATCTGAATCCCAA
GCAGGAAAAATAACTCCAAGGCTCTTACTTAGGCTGTCGTGTCTGTTCTGTCATGCGGTGAGTCAGCAACACTGACTGC
ATTTATTCTTCTGGGAATTGTTCTTCTAGGAGCTGTAGTAGTCATGGTACCTCCCTGCAGGAGTTCATGAATTAATAGG
ACTCATAGTGCAAAGTTTCTCTGAGAATTTTCTATAACACAAACTCCTTAACTTCCTGGTGGGTAATGTTTTCTGGGTG
TTTTTTCTGTTTTCTGTTTTTTTTTTTTGTCATTTCTTCTTTAGTAAAATGAAAATTGCAAGTAGAAAAGAAACTAAA
AATGGATTTAGTGTGAGGACAGGTTCCTTTTCCTGGCAGGATTGTAGAACACTGGTATTCAGTTGACTGTTTACAATGA
ATATATCTTCTGGTTGGTCATGGCCAGAAGAGAAAATGTCATTGGTTTGTGCCCAAGCAAATTGATTATTAAAATACGT
TGAATATGACCCCATGGTTGCAAACATCCCTTTTCTTAGTAATTCTTAGAGATGAAGAAAGTCTTTTATCTGTTTTCTA
TTTCAACTTTCTGGGTAATCTCTATCCTTTCTTTTTGATAAGTCTCTGTCTTCCCTCTATCAGTGTGAATAATGTTACT
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AATTCTCTGAATTTATTTAGAGCACTGTTTGTAAAAGTGTAAGTGTTATTATGCAGCCTTGCTTTCCTACCTACCTGAA
TTCTCTCCCCTACTCTCCCCAACTCATATTGCCAGCAGTGGGTAGCTGGCAGGATGTTTGAAAGATTTCTTCTTCACAA
TTCAAAAGGCTTGGTCGAGTGACAGGATTCATATCCCAAACCTCAACATCACACAATACTCCCATGTAACAAATCTGCA
CATGTACCCACTGTATTGAAAATAAAATTAAAAAAAACTAAAAAAAAGCAAAAAAGCAAAAAAACAAAAAACAAAACAAA
ACAAAATCCCTGGTATATATTAAGAGTCCCAGTGACCTACTTCACTTGCAAATTAATGGCCATCTAGAGTGTGGAGTTT
GGTTGAATGATTTATACTGCATTGTGATTCTAAAAATTAATTATTTTTAATTTCTTTGATACTCTAGATCAGTTTTCTA
AGGTAAATGTGAAGTACATCAGTGACTCCAAACTCAATTGAGGTCTCCCGATTTTCTTGGACTGACTATGTATATTTTA
AAGAATTATTTACTTTCATACTTTGCCAAGACCCAGACAGAAAGAAGCTTTCAGTGTTCGTGGCAGCAGAAAAGAATAC
TAATAAGTGTTAGTCATCCACAGTAAATTAAAAATATAATAATAAAGGAAAATTAAACTGCTGTGTGTTTGGGTGTTTG
CTCTATCACCATAAAATTCACAACCTCATCTTCTAGTCTCTGAAAAGGAGTGGGTGTGGCAGGAAGCATTTGTGAAATTC
CATTAGCATTTTTAGAGACAATTACTCCACTAAATGATTCAGAATTCAGCTCCTAGCTTCTAAGATTCTACTTAGGCTT
ATGAAGCATTTTATTCTGCAACAGAGTATACATATAATGTAGAATTCCTAGGATTGAAAAACTTGTTAGCTTCCAACCC
AAATTCTCTTACTTTTAGATGAGAAAATGCTGATGATTGGCCTAAAGTCTTATATCTACTGGTGGAGGAGTGGAAATTC
ACTCGTTTACCTTCGCACTGGAGGTAGATTCAAAATACTTCAGAAACGATGTTAGACTAGAGCATAATGCTTGGCCATT
GATAAATAAATAAATGAATATAAGATGTTGTGCCCTGAGATTCAGAATTGGCAGCAAGAATGTGGGTATTATAAAGGTA
TATTTTTCTTCTTGCCTTATTATTGAATAAGAGTACTTGAAAATGGATGAAGGCAACCAGATGTTGAGTCAGATTTCCT
GAGCTTTGAATTTTGGACCTGCATTCATTTCATTTCTCTAGGAAGGTTGCCCCCCTCTTTATTTGTTCAGTGCTTATAC
CAGATTTTATTATACTGGAGATTTCTAAAGCCTCCAACCAAGGAAGATTCCCTGACTTCTGCCTTGCTGCTGCACCACA
CAAATAACCATATCAATTTATATTGCACTATTCTCAACCCCACAAACTCCATTTAGACCTAACAGCTATGGACAGTGGC
CCTAATTTCCTAGGAACATGATCATTTTGTTCTTGTTTGGTGTCTATGCCAAGCTCCAAATCACAAAAAGCTGTTAATT
CCAATTACCTTTTGCAAAATCCATTTTGAAGTCTTCTCACAGATGGATGTATTTAAAACACCTAGAAGGTTAACATCCT
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GAATCAATAATTTAGTTGCAATTTAGTTGCATACCTAAAACAATGCAAGGTTGAAGAACCCTGAGAAGAGTGGTAGCTC
CTGATGACAGAAATAGGAGTCTCAGGTATTCTTCTTTTGTTTCCCAAGTGGTATCAAGCATGTGTCTGACTCACTGGTG
CTATTTTACATTGTGAAGGAAGTATGGATGAGGGAAGGCAAAACCAGTGCAAATATTCTAGATCCACTTATTTCCTTCC
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CTCACTGTCCTGCTCCTAGCTTTAATTTTACCAATTARTAAAACATACTAAAGATTTTTTTCATATCAGTGCATGAAGC
TTTTCCTCTTTTTTCTTTCAACTGCATAATATTCCACTATGTGGAAATATCATGGTTTATTTAAATAAATTCTTATCAG
GGAATATTTGAGTTGTTCCAGGGTTTTCTTTCTTTCTTTCTTTTTTGCTGTGAAAAACAATGTTACAGTGAATAACTAA
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TGAAAGTGTATTTTTCACACATCCTTTCAAAAACATTCAAACTTTGGATTTTTGTACATCTAATTGGTGAGAAATGATA
TACTTGTTTTCATTTTCAATCTATTCTTATAGATGAACCTGGACATATTTTCATAAGTTTAATAACCATTTGTTTTTCT
TTCTCGGTAAACCGTATTTCCTTTGCTAATTTTTCACTGGGCATTTGGTGTTGATTTCTGTCAAATCTTTACAAAGTAG

Fig. 6. 117

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AGAAGTTTGTACTTTGTTTATGATCTGAGTTGCAAATACTTTTATTCCTTCCTTGACATTTATCATTTGCCTTAACTTA
TGGTGAATTTTTACCATGCAAATGTTTTTGATTTTCATGTTGTTCAGTATGTCAATATATTTTATATTCATTACATTCA
TTAGTGGCTAAAACTTCCCAAATGTTGGTAGGAATATGGATGTCTAGATTAGTGAGGCTCAAATGCTCCAGGCAAGATC
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AAGAGAAAAACTACTCATCACATGGAAGGGTACTCACAAAGGCTACAAGCAGATTTCTCAGCAGAAACTTTGCTGGGCA
GGAGGGAGTGGAATGATGTATTCGGAGTACTAAAAGAAAAACAAAACTGCCACATAAGAATAATGAGTCTGTAAAAGCT
GTACTTTAGAAATGAAGAGACATAAAATCATTCCCAGAGAAAAGAAAGCTAAGAGAGTTTATTTCCACTAGACCTGCCT
TAAGAGAAATGCCAAAGGGAGTTCTTCAAGTTGAAATGAAAGGACCCGAAGTAACATCATGAAAACACAGGAAATCCCA
TAGCTAACATCATACTCATGTTGTAAAGCCAAAAGCTTTTCCATTAAGATCAGCAAGAAGACAAGGGAGTTCACTCTCA
CCACTTCTATTCAACATAGTACTGGGAGTCCTAGCCAGGGCCACTAGGCAAGAAATGGAAGTAAAAAATATCCAAATTG
TAAAGGAAGAAGTTAAATTGTCTCTATTTGCATAAGGCATGGTTTTTTATAGGAATCTCTAAAAACTTCATCAAAAAAC
TTAAAATTAATAAATTCAGCAACGTTGCAGGATACAAAATTAACATACAAAATCCAGTTGCATTTCTGTACATTAACAA
CAAACTATTTGAGAAAGAAATTACAAAGACAGTCCGTTTACAATAGCATGAAAATAATAAAAATACAGAAGAATAAATAC
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TGCCCAAATGGCAAGGCTGAATTGAYCCAAGTGATTAAGTCATACTCTTAAAACTGTATAACCTAATAACCTTTTATTA
AGAATAAGTTCAGAAAAACAGTTCACAATTTCTTTTTACTTAAATTGTATATATTATATGTGCAGTTTTCAGATGTGAA
TGGGATTTGAGATCAGAAAGGCAGGGCTTCATACTGCATTTCTCCAACTTGCTCTCTATTTGTCCTTTAGCAAAAGACA
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TTTCATGATGTTTTCTGAGGCATTAACTGTTACTCTGAAAAGAAAGAAGAGTGTTGGTAAGACTTGGGTATGAGATAAA
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TTTCTAGTCTCATCAAAACTATACATTAGCATTCAGTGACTTGTAAGAGTAAACTTCCTTCTAGATAGTCCTGTGTGCT
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GTTTATTCTTAATGTATCGTGAACTTCAGTAGAGAGCAAACAAGTTGTCTTTATAATTTGAAGTTTTGCTTTCTCTTTT
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TCTGACAAAGGGCTAATATCCAGAATCTATAAAGAACTTAAACAAATTTACAAGAAGAAAAACAAAGAACCCCATTAAA
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CATCACTGGCCATCAGAGAAATGCAAATCAAAACCACAATGAGATACCATCTCACGCCAGTTAGAATGGCAGTCATTAA
AAAGTCAGGAAACAACTGATGCTGGAGAGGATGTGGAGAAATAGGAATGCTTTTACACTGTTGGTGGGAGTGTAAATCA
GTTCAACCATTGAACTTGTAGATAGACAACTTGTAGATAGACAGATTCCATTGTGGAAGACAGTGTGGTGATTCCTCAA
AGATCTCAAACCAGAAATACCATTTGACCCAGCAATCTCATTACTGGGTATATATCCAAAGGATTATAAACAATTCTCC
TATAAAGACACATGCATATGTCTGTTTACTGCGGCACTTTTCACAATAGCAAAGACTTGGAACCAACCCAAAAGTCCAT
CAATGATAGACTGGATAACAAAAATGTGGCACATATACACCATAGAATACTATGCATCCATAAAAAAGGATGAGCTCTT
GTCCTTTGCAGGGACATCGATGAAGCTAGAAACCATCATTCTCAGCAAACTAACACAAGAACAGAAAACCAAACACCAC
ATGTTCTCACTCATAGGTGGGAGCTGAACAAAGAGAACACAGGGACATGGGGAGTGGAACATCACACACTGGGGCCTGT
TAGAGGGTGAGGGGGCTGGAGGAAGGATAACATTAGGAGAAATACCTAACGTAGGTGATGTGTTGATAGGTGCAGCAAA
CCACCATGGCACGTGTATACCTATGTAACAAACCTGCACGTTCTGCACATGTATCCCAGAACTTAAAGTATAATAAGTA
AGTAAATAAATAAGTAAAAAGAAATATGTTAAAAAATTATATTATGTAGATATTTTTGTTATCTTGCTTCATGCCAAGT
GCTTTCATAAATGCTAGACTTCTATTTGTACATTTTGCTTTCATGAGGGTGAAGACAAATAAAGAGTGATCATTCAAAA
ATATTAATGTACGGAAAAGTAAAGTAACTGTAGGGCTTCCATAACAAAAGTACAACAAATTGAATGGCTTAAACAAGAG

Fig. 6.113

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AAATGTATGTATTGTCTCACAGTTCTGGAGGCTAGGAGTCTCAAATCAAGGTGCCAGTAGCGTTGATTCCTTTTGAGTA
AGCTGAGAGAAAGATCTGTCCCTGGCCTTTCTTCTTGGCCTGTAGATAGACAACTTCCTTCCCTGTATGTCTCTTCACA
TTGTCTTCCATCTGTGCACCTCTCTGTGTTCAAATACCCTCCAACTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGCA
TGTCACTCACATTGGGTTAGGGCCTACCCTAATGATTTCATCTTAACTTGATTACCTCTGTAAAGACTTTATCTCCAAA
CCAAATCACATTCTAAAGTACTGGGGGTGGGTGAGGATTTCAATATATGAATTCTGGGGAGACCCAAAGCAATCCATAA
AAGTAGCCATTTAAATAGAAGTATTTTTAGTCTTTTAACTTAAAGTCTCTCTACARTGTTAAACCATGCCATCTTAATG
TGTGTTATTTAGAATAATCTAAAAAATTATATATTTTCATTAACATTTAGGTTACCTTCAACTTTGTTTTTGATGTTTT
GTAAGCTGCCCATAAGTGACTTTAATCACTCACTGTATACCACTGACAGATCATTTCTCATGAATTCAGTGATGTGCAC
TTTGAGACTCAGGAAAGAGGGAAACTTGGCCTTACTAAAATCATATAGTTAGTATGTGGCAGAGCTGATATTCAACTCT
ACATCTTGCTGCCTCCAAAGTTAGTGATATATGCATGGTCAATATTATTTTAAAATACTCATTTAGTGCTTGCCTTTTT
AATAAAATGCTGATTTTCCTGATTATAAGTGTAACAGGTGATCACTGAAGAAAGTTTAGGAAAAAACTCAAAACTTATT
CAGATTAATATTAAAATTACTCATAATTTCACCATCCATAGATAATTGTTGGTATATTATCTTACAGAAATCGTTTATA
AACATTTTTATTATTCAATTTATATATTTATATCTGCAGAACTACATATGTAGTTTTACTTACCACCAAAACTTGTTGC
AAAAAAACATTTTTACATTTGCCCAGTTAAAAATCACCATTAATCTTAGTGGAGAATTATTTTTTAATTATTTAAAATA
AGAATATTTTCATTTTTGCATTTTTCTAGAGAGAGCATGGCATAAGCCTTGTAAAGTTACTCCTGAAATTTAATTTTCT
TTTCTTATTTCCTACTCTCTAGTCCTAAGAGATGAGTGGTTCAAGACAGAGTGGGGGTAAGGCAACAGTCAGCACTTTG
TCTTTGCTCCACTCTCTGGTTCATCTCTGAAGCCTGATTTCTCTACCCAGGCATGAAGATACTTGAATAAGTAGCCTTT
TCCATCCTTTTGCCCTGATATGAAAACTGGTATATCTCTTGAGAGAAGAGCCTCAAAAAATAATCTGAGATAGGAACAA
GTGGAAAGCAGAGATAGTCTCTTCTTTTTAATTCACCCCTCCTTTGGTCACCTCCTGAATATAAAAAGAAGGACCCAGA
ACAACATGGTGTCCACGGCAACCATATCTAGGTATTGCAGAATTTTAGAGAACCCATGAAATCCTTTCAAAGGATAAGC
AGGGGATCTAAATCGTGTCAGATGTATAGCACCCAGCACAGAGCTGAGGGCAGAATATGTGCTTCATGCATCTTTTTTG
TTTGATGGCAATATCACTTCAAGGCTTCTTCAGAAAGATTCCATACCTACCTCTCCTTCTCACTTCTTTATAATCTGTA
ATTTACACACTTACCTCACAACTTTTCTGGGACACATTCAATCTATCAGATATGTAACCACTTGTAAGCTGTTGGTTTG
ATTCTGCAAGTTTTGGTGTGGTAAGACTGGAATCGTACAAATGATATGCTTGGATCAGGTAGTCCCTCGTGGTGAGTCA
TGTCTAGGCTCACCCCGATGCAGTCCAGTCATGCTTCCCCTATGACTTAGTTGTTTGTATTGTCCCCAGAGTCAAGAGT
GTCCCAAGTCTATGAATCTTGCTCCGAGCATTGTAATTTAGCCTACGGCCTTGTTCACACAAATAAATCTGGCATTAG
TTCCAGCTGGCAGTGATATGGCTTGGTGATTCACTTTTAGGCCTCATTGGAGTAGAGTTAAAGAAACTTCATTGTCAG
AAAGAGTGAGATCTCTACCATGTGTCTTCTAAGAGTGTTCAGAGTGTTTTTTTTTTTAGCGTGCAGAAGTCCTAACTT
TATTCCTAGTACCCTCCATTCTCTCTTTTTTTATTGAAACATAAGAATTGTGCATATTTACAGGGTACATGTGATATT
TTTATACATGTATACAATGTGTAATAATCAAATCAGAGTAATTAGGTTATCAGTTACCTCAAACATTTATCCTTTGTTT
GTGCTGGGAACATTCCAAATCTCTTCTTCTAGCTATTTTGCAATATAAAATAAATTACTATTGCCACCTTATGTACTA
TCAAACACTATAACTTATTCCTTCTATCTAACTGTATTTTTTTACACATTAACCAAATTCTCTTCATCTCCTCCCTGCT
TCCCTTCCCAATGTCTGGTAACCATCATTCTACTTTCCACCTTCATGAGATCCACTTTTTTAGCTTCCTTATATGAGTA
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GAATTTCATTGCTTTTTTATGGCTGAATAATACTATATTGTGTATATATTTCACATTTTCTTTTTTTTTTTTTTTTTT
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TCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCGCGCCACCATGCCCGGCTAAT
TTTTGTATTTTTAGTAGAGACGGGGTTTCACCGTGTCAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCTGT
CTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCGGCCCACATTTTCTTTATCCATTCATCTACTG
ATAGGTATATAGGTTGCTTCCATATCTTGGCTATTGTGGATAGTGCTGTAATAAACATGGGAGTGCAGATATCTTTTTA
ATACAGTGATTTCATTTTTTAAAATGTATTCCCAGCAGTGAGATTGCTGGGTCATCTGTAGATCTATTTTTAATTTTTT
GAGGAACCTCCATAGTGTTTTTCACAGGAGCTGTACTAATTTACATTCTCACTAACAGTGTATTAGCATTTCTCTTTCT
CTACATCCTTGAAAGCATTGTTTATTTTTTGTCTTTTTGATAATTACCATTTAAACTGGGGTGGGATGATATATCATTG
TGTTTTTCATTTGCATTTCCCTGATAATTAAGTGATGTTGAGGTTTTTTTAAATACACTCATTAGCCATTTGTATGCTT
TCCTTTGAGAAATGTCTATTCATATCCTTCTCTGCTTTTCAATGGGATTATGTACTTTTTTACCTTGTATATTCTGGAT
GTTAGTCCCTTGTCAAATGAATAGTTTGYGAATATTTTCTCTCATTTAACAGGTTGTCTCTTCACTCTGTTGATCATTT
ACATTGTTGTGCTGAAGCTTTTTAGCTTGATGTAATTCCATTGTCTAGTTTTGCTTTTGTTGCTTGTGTTTTTGAGGTC
TTACCTAAAAAATCTTTGCCCAGACCAGTGTTCTTCCAATTCATGAGCATGGGATGGATATCTTTTAATCTTTTGTGTC
CTCTTAAATTATTTTCAACAGTGTTTTATAGTTTTCATTCCAGAGGTCATTCACTTGTTTGGTTAAATTTATTCCCAGA
TGTGTTTTTGTGTGTGTGTGTAAGTATTGTAAATGGGATTACTTTCTTGATTTCTTTTTCAGATTGTTCACTRTTGGTA
TATAGAAATGTTACTGCTTTTTGTATGTTTATTTTGTATATTGCAACTTTAATGAATTTGTTTTTCAGTTCTAACAGGT
TTTGGTYGAGTCTTTAGGTTTTCCTAAATATAGGATCATGTCATCTGTGAACAATGATAGTTTGACTTTTTCTTTTCCA
ATTTAGATGCACTTTGTATCGTTCTCTTGCCTAACCGCTGTGATAGGACTTCCAGTGCTATCTTGAATAACAGTGGTAA
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ATGTCAAATTTTATCAAATGCTTTTTCAGCATCTATTGAAATGAGCATATGGTTTTTGTCCTTCATTCTGTTGATACAA
TGTRTCACATTGATTGATTTACATATGTTGAATTATCCCTGCAACCCTGGGATAAATCCCACTTGGTCATAATGAATAT
TTTTAATGTTTTGTTGAATTCAGTTTGCTTGTATTTTGATGAGGATTTCTGCATCTGTGTTCATCACTGATACTGACCT
GTAGTTTTCCTATTTTGTTGTGTTTTTATCTAGTTTTGGCATCAGGATAATCCTGGCCTTTTAGGATGAGTTTAGAAGT
ATAGTTTAGAAGTATTCCCTTCTCTTCAATTTTTTTGAAACAGTTTAAAGAGAATTGGTATAGGTTATTCTTTAATCGT
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Fig. 6 .114

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TTGGCAGAATTCAGCAGTGAAGCTGTCAGATCCTGGGCTTTCCTTTAATAGGAGGCTTTATTACTACTGCAGTCTCATA
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Fig. 6.115

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GAAAATCTAGAAGAAATGGATAAACTCCTGAACACATACACCCTACCAAGACAAAACCAGGAAGAAGTCAAATTCCTGA
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GGACTCCTCCCTAACTCATTTTATGAAGCCAGCATCATCCTGATACCAAAACTGGTAAGAGACACAACAAAAAAGGAAA
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AWAAAACTTATTCATCATGATCAAGCCAGCTTCATCCCTGAGTTGCAAGGCTGGTTCAACATATGAAAATCAATACATG
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Fig. 6.⁴⁶

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CAACATCCCTTCATGTTAAAAACTCACAATAAACTAGGTATTGATGGAACATTTCTCAAAATAATGAGAGTTAATTATG
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TGAGGAAGCTAGGAATCACAATAAAAATAGTACAGAAGCTGACAAACAAAACACTCAGTATAGAAAAGAGTGTAACCAAC
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Fig. 6. 117

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AAACCAGCACAAGACAAAGACGCCCTTTCTCACCACTCCTATTCAACATAGTATTTTAAGTCCTGGCCAGAGCTATCAG
GCAAGAGAAAGAAATAAACAGCAAGGCAATACCAAACAGCCAAGGCAATACTAAGCAAGGAGAACAAAAAAGAACAAAT
CTGGAGGCATCACACTACCTGATTTCAAACTATTCTACAGGGATACGGTATCCAAAACAGCATGATTCTGGTATAAAAA
CAGAAACATGACCAGTGAAACAGAATAGAGAGCCCTGAAATAAGGCTGCACACCTACAACCATCTGATCTTAGACAAAG
CAAAGGGGAAAGGACTCCCTATTCAATAAATGATGCTGAGAAAACTGGCTAGCGATATGCAGGAGATTGAAACTGGACC
CATTCAGTACACTATACATAAAAATTAACTCAAGATGGGTTAGAGACTTAAACGTAAAACTCAAAGCTATAAAAGCTCT
GGAAGACAACCTAAGCAATACCATTCCAGACATAGGAACTGGCAAAGATTTTATGATGTAGATACCTAAAGCAATTGCA
ACAAAAGCAAAAAAATGATAAATGGGATCTAATTAAATACAGAGCTTCCTCACAGCAAAAGAAACTACCAACAGAGAAA
ATAGACAACCTACAGAATGGGAGAAAATATTTGCAAACTATGCATCTGACAAAGTTCTTATATCCAGCATCTATAAGGA
ACTTAAATTTATAAGAATTAAACAACCCCATTAAAAAGTGGGCAAAGGACGTGAACAGACACTTTGCAAAAAAAGTACG
TGCAGCTAACAAGCATATGAAAAAAACTCAGTATCACTGATCATTAGAGCAATGCAAGTCAAAACCACGAGATGCCATC
TCACATCAGTCAGAATGGCTATTATTAAAAAGTCAGAAAATAACAGATACTGGTGAGCTTGTGGAGAAAAGGAAATATT
TATACACTGTTGGTGGGAATGTAAATTAGTTAAACTATTGTAGAAAGTAGTGTGGCAATTCCTCAAAGAGCTAAAAACA
GAACTACCTGTCAACCAGCAGTCCCATTACTGGATGTATACGCAAGGGAATAGAAACTGTTTCATCATAAAGACACAT
GCTCACATATGTTCACTGCAGTACTATTCACAACAGCAAAGACATGGAATCAATCTAAATGCCTATCAATGGTAAACTG
AGTAAATAAATTGTGGCACATATACTCCATGGCATACTATGCAGCCATAAAAAGGAATGAGATCGTGTCCTTTGCGGGA
ACATGGATAGAGCTGGAGGCTGTTATCTTTAGCAAACTAATGCAGGAACAGAAAATGAAATACTGCATTTTCTAACTTA
TAAGTGGGAGCTAAATGATGAGAAGACATGGACACAAAGATGGAAACTAGGCTTAGCAACTGGGTGACAAAATAATCTG
TACAACAAACTCCCATGACACAAGCTTACTTATATAACAAACTTGCACATGTATCTCTGAACCTAAAATAAATGTCTTT
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TACAGAAGGCAAATTAAGTCTTAATTTAATTTGGCAGCTTTTAATGTGGCAATCTTTGATTCTTTATTCTTTTAGATGG
CTGTGTGCACCAATTAAAGAATGCATCCCATTTGCTAAAGAAATTAAAATTTAAAAGAAAAAAATCTTAAACAATTTAA
TACTACATCTCAAGGAAGTAGAACAATAACAACAGACTAAGGCCAAATTAGGCAGAAAGAGGGAATTAACAAAGATTTG
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Fig. 6.118

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ATAAATATAAACTAAATTGGTAAAACCTTAAGTAAACTAACTAGCAAAAAAAGAGCGATGCCTCAAATAAAAAAATCAG
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CACATTAACAAAATAAAGCATAAAAACATGTGATCATCTCAAGATACAGAAAAAGGGTTTGACAAAATTTAACATCTTT
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TAAAAAGGCATTTAAATTGGGAAGGAAGAAATAAAATTTTCCCTGTTTGCAGGTAACATGATCCTATATATAGAGAAAA.
CTCTGAAGATTCAATTAAGAAACTGTTAGAACTAACAAATGAATTAGTGAAATTACAGAGTACAAAATCAACATACCA
GAATCAGTTGCATTTCTATACACTAACAACAAACTATCTGAAAGGAAATTAAGAAAACAATGCCCATCTAAACTAGTGC
CAAAAAGAATAAAATAATTTAGTAATACACCTAAACCTAACTAACAAGGTGAAAGATTTGTGTATTAAAAACTACAAAA
CATTGATGAAAGATACTAAGCAAATCAAAAGACATTGAATGTTCATGAACTAGAAGACTTAACATTGTTAAAATATCCA
TACTACCAAAAGAAATCTACAGATTCAATGCAATCCCTATCCAAATCTCAATGTCATTTTTTACAGAAAAGTGAAAAAAA
GCTCTAAAATTTATATGGAGCCATGAGTCAAGAAATAACCAAATCAATCTTGAAAAAAAGAATAAAGCTAGAGACATCA
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TACCATAAACTGGGTAGCTTATAACAACAGAAATATATTTCTCACAGTTCCAGAAGTTTGGAATTCCAAAATTGAGGCA
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CCATATTAAGGAATGAAACTGGATGCTTGTCTTACATCATATGCAAAAATCAACTTGAAGTGGCTTAAAGATTAAACAT
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GCACTCCTATATTCATTGTAGGATTATTCACAATAGTTAAGATTTAGAAACAACTTAAGTGTCTATTGACAGATGAATA
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GATGATGATGATGATGATGATGATGATGATAATTTGCTTTAGGAAGGAGCTGCACACTACAAAATGCAACAGAGTTGAT
AATGATAAGATTAGTTGAATTAAGTAATTCTAGACCCCAAATTGATTATTTCATTTCACTTTCTAGGTCAATAGTGTAC
CTTGTTGCAATGAACTGAGTTGGTTGTAAAAAGTCTACTATCTTATCAAAAGATTGTTCAAAAACATCTCCATGTACTA
```

Fig. 6.119

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AATACTATCAAGCAAAAATATATTGTGTATAGGGAAATACAGTATTTAAAAAAATTGGTAGAATCTACAATGAACTCAA
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CACTCATAGGTGGGAATTGAACAATGAGAACACATGGACACAGGAAGGGGAACATCACACTCTGGGTACTGTTGTGGGG
TCGGGGGAGCGGGGAGGGATAGCATTAGGAGATATACCTAATGCTAAATGATGAGTTAATGGGTACAGCATACCAGCAT
GGCACATGTATACATATGTAACTAACCTGCACATTGTACACATGTACCCTAAAACTTAGAGTATAATAATAATAATGAT
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GTTAAATTATTTCGAGCATTCTTTGGTACACAGTAAACCCTCCGTAAGTATTAACTTTTATGGATAAAAACTTTTAAAA
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CTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTCTTTCTTTCTTTCTTTCTTCTTTAAGTTTTGG
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CTGGGTTTTAAGCCCTGCATGCATTAGCTATTTGTCTTGATGCTCTCCCTCCCCTCGTGCCCCCATGACCCAACAGGCC
CTGGTGTGTGTTGTTCCCCTCCCTGTGTCCATGTGTTCCCATTGTTCAACTCCCACTTATGAGTAAGATGGATTTCTGT
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GCTTTTGGTGATTCCATCATAAAATCTTTGCCCATGCCTATGTCGTGAATGGGATTGCCTAGGTTTTCTTCCAGGGTTT
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TACCTGTACCATGTTTTGGTTACTGTAGCCTTGCAGTATAGTTTGAAGTCAGGTAGTGTGATGCCTCCAGCTTTATTCT

Fig. 6. 120

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TGATTGCCCTGGCCAGAACATCCAATACTATGTTGAATAGGAGTGGTGAGAGAGGGCATCCTTGTCTTGGGCCAGTTTT
CAAAGGGAATGCTTCTCGCTTTTGGCCATTCAGTATGATATTGGCTGTGGGTTTGTCAGAAGTAGCTCTTATTACTTTG
GGAAATGTTCCATCAATATCTAGTTTATTGAGAGTTTTATCATGAAAGGATGTTGAATTTTGTCGAAGGCCTTTTCTGC
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GCAGGGTTGGATAGTGGCTATTTCTACCCATAGATACTTGTAATTGTCAGTTCCCCATGTCACTCCTGTACCCTTTCCT
GTCTTCATTGCATGTGGTGTTTTGGAATTCTTAGCCTTTCTGGAAAGGCAATTTCTCTCTCTCAGTCTGTCATATTTAT
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AGTACCTATACCCAAATCTTATTTCAATATACTCTACATTAACAGCATGTTACAGATAGGAATCCAGTATTATATTTAC
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CACAGTTCTACAGGGCTGGGGACAGAAGGCACTGAAGAGGAATGGAGAAACTGAATGAGGAAAACTTTGGAGAGGAGG
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CTTCATTGATAATCCTGATTGATGTAGTTTTACTTTCATCATCTAAATATCTCTAGTTTCTAATTTATTCTGTGTAGAG
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ATTGGAATAGGTTTCCTAGTAAGATATTAAATGTGTCATCCAAATAAATTTTTAGGTTACATAAACACTGATCTTGAAT
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Fig. 6. (2)

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AAAATAGCTATAGTTCTACCTGGAGGTAGAGAGTCATAATAATATCAAATTAGAGCTCATGTTTGTGTGTGTATGTGTT
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AACCCTCTGCTGTCTCTCTTCCACTTAAATTTGCGGGGAAATCTAGTTAGCATAAAAACACTGATCCCTGTGGCTGGCT
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GCAGAGTCTCAGTGAAAACTTGTTTGGGGGTTGGTGCCTCTGATTCTCAGTGCAGCCTGCCAGCCTCATTGGGAAAAGG
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ATATCTTACTTACAATGAAGAAATCAGGCAATTTTGGGGAGTAGAAGTGGAAGTGTGACTCATACATATATTGGTATTT
TCTTTTATGAGATTTTGATATGGCACTTAATGTTTTATGCTGAGAGGAGATGAAGATTTCTCATTTTCCTACAATTTCA
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CCTTTCTTCCCTTCCTTGCTTCTCCTTTCCCTTTTGGTTTCTTTGTTAAGCCTTTTCTTCCTTCCCTTTATCCCTCCTT
ATAATTGATTTTGCTTCTTTGTGTTACTACTTTCTTTCCATGGTTCCTCCAACCTGTAGTATGAAAGAGAGTGGATATG
GTAGTGGTTAAGAGCATAGGCTCTAAAGTCAGACTGCCTGGCTTTGAATCCTCTCTACCACTTACTGACTGAGTGACCT
TGGATTGAGTCACTGAACTTCACTTTTCAATTTTTTATGTCTTATTGGATAAGTTTCAATCAGAGTTGAGGATGAAGTG
AGATATATGAAAGTGCTTAGTACAAAGCACATGTGTTGCTATCTTATAGTATGCAGTCACGACTTTCATATATATATTA
CATTTATGGTTATTCCAATATATACATTTTGTGTAGAAGGCTTAGTCTTTCAATTACAATAAGCTATTGGTATAGTTTA
GCCATCTAATGCTAATGGAAAGGAGAATGGGCTCAATTGTTCTAAACAAATTTTATAACTTACTTATCTTGGGCTTTGA
AGAAAGGTATGAGGAAATTAACCACAGAGATGTGTGCACACCTAAGAGACATTGACCCCACTTACTTTCTTTCCTTGCT
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TGGAACATAAGGCAGTGTTTATTGATGCCATTGATCTTTGTAATGGGCTACATGATTGAACCTTTTTTTTATTTCTTCT
CCTTAGTCTTTGATAATGACTTCACATCTGTAGTTATCTCTTTATATTTGTTGAGTTGCTTTTTGCTGCCTGCAGTATT
CTAGACATTTTATAATTAGAGATAAAGCTTGGAATTTCCTATGCAACATGTTTTGTATTCAGCCTGCTTTCTTCTTCCC
ACAGTTTTGGTCTGGTTTTGTTTATTAGTTTGTTTTCTGCAGGTAGAAATACCTAGGAAAGACAACATCATTTGATAAA
GTATAAAATATGCTTATTTAGGAGAGAATACTTTAAAAGGCTTATGAACTCTTGATGACTATCCTTTAGTTTATAATTA
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CCCACCGACAGGCCCTGGTGTGTGATGTTCCCCTCCCTGTGTCCATGTGTTCTCATTGTTCAAATCCCACTTATGAGTG
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CATTGTGGTTTTGATTTGCATTTGTCTAATGACCAGTGGTAATGAGCTTTGTTTATATGTTTGTTGGCCGCATAAAAGT
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<div align="center">Fig. 6.122</div>

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TGTTGCGTTGATCCCTTTACCATTATGTAATGCCCTTCTTTGTCTTTTTTTGATCTTTGTTGGTTTAAAGTCTGTTTTA
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GCTCTGCACCAAGCAGACCTAATAGACATCTACAGAACTCTCCACCCCAAATCAACAGAATATACATTTTTTTCAGCAC
CACACCACACCTATTCCAAAATTGACCACATACTTGGAAGTAAAGCTCTCCTCAGCAAATGTAAAACAGAAATTATAAC
AAACTATCTCTCAGACCACAGTGCAATCAAACTAGAACTCAGGATTAAGAATCTCATTCAAAACCGCTCAACTACATGG
AAACTGAACAACCTGCTCCTGAATGACTACTGGGTACATAACGAAATGAAGGCAGAAATAAAGATGTTCTTTGAAACCA
ATGAGAACAAAGACACAGCATACCAGAATCTCTGGGACGCATTCAAAGCAGTGTGTAGAGGGAAATTTATAGCACTAAA
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Fig. 6.125

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ACACATTCAAAAGCTAGCAGAAGGCAAGAAATAACTAAAATCAGAGCAGAACTGAAGGAAATAGTGACACAAAAAACCC
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ATCCCTGGGATGCAAGGCTGGTTCAATATACGCAAATCAATAAATGTAATCCAGCATATAAACAGAACCAAAGACAAAA
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Fig. 6.(124)

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CACCACCCCACAACAGTCCCCAGTGTGTGATGTTCCCCTTCCTGTGTCCATGTCATCTCATTGTTCAATTCCCACCTAT
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CCTACAAAGGACATGAACTCATTTTTTTATGGCTGCATAGTATTGCATGGTGTATATGTGCCACATTTTCTTAATCCAG
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Fig. 6.125

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Fig. 6.126

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Fig. 6 128

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TCTGCTTCTAAGGTTGTTTCAGCCAGCCTTATAATGCAACTAGTGTGAGAAGCAGTGACACAAAAAAGAATAGAGCCAA
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ATTTCTTCTACAGGAATACTCCTCTGTTATAAGGATTCAATAAATATGGTGACTTTATTGTTATTCGAAAGATTATAGG
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TTGACTTGAAATTTGACCTCAGCTTTTCATCCAGTATGCTAATGATGGTATAAAATTTACACTCCTTACATAAATAAAT
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Fig. 6.124

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TCACTTGACCTAGAGCTGAGTTCAGGTCCTGAATATCCTTGTTAATTTTCTGTCTTGATTATCTGCCTAATATTGACAG
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GTACTAGCAGTACTTGATTTGATCAGAGACCATTTTTTACTCTGAAAACCTTCTGCCATCTGGAGGGGTTGAGAATGAG
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TAGGATTTTCCTGAGTATGTCTTCTGCTCCATGTGGTATTGATTAGGTAGGTCACTTACGTGGCTACATTTAGTCAATA

Fig. 6.130

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GCTGGTCTGGGCTGGATGGTCCAAGAAAGTTTCAGTCATATACCTGGCACCTCTGAGCTTTTCCATATGGCCTCTATGT
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Fig. 6./131

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TCTCTTCCCCTACACTAGTGAAATTCTATGAAGGCAGGAATGTTTGTCATTGTCACACTACTGTATTTCCAGTGCCTAA
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Fig. 6.132

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Fig. 6.134

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Fig. 6.135

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TCCTCAAGTTTCTTTTAAAGTCTTTTTTTTCTTACTACCCTCTCAGTCTTATAAAAATTGGCAAGAGTATATCTGAGTA
AATGTGACATATGAAAACATATGTTTCAAATATGGCCTTAAATATGCAGAAAAAATAGGACTTTTCTTCCTCTCTCTTC
ATGGGCATGCATGTAAGAAAGATATATATAAATATACAGTCATGTGCTATATAACATTTTAGTCAACTATGGACCCATAC
ATACCATGGTGGCCATAAGATTATAATACTGTATTTTTACTGTATCTTTCCTATGTTTAGATATACTTAGATACACAAA
TATTTCCCATTGTGTTATAATTGCCTACAGTATTTATTACAGTAACAATGTACCATCTAGGTTTGTTTAAATACACTGT
GATGTTCACACAAGGAAATTTCCTAATGATGCATTTCTCAGAATGGATCATTATCAAGTGATGCATAACTGTATGTGTG
TGTGTGTATATATATATATATATATATATATATGACACATGCATATGTCAATGTATATATTTAATGATGTTTGCAAT
TCATTTCATAGAAGTTATAAAAACATTTTGATTTATCCTTGATTTTATAGAATTCACACACAAAGCTAATAAATTCTAA
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ATTACCTCAGGCCTCTGAGGAAACACTACATTCCAGTAATGAAGAGGAAGACCCTTTCCGCGGAATGGAACCCTATCTT
GTCCGGAGACTTTCATGTCGCAATATTCAGCTTCCCCCTCTCGCCTTCAGACAGTTGGAACAAGCTGACTTGAAAAGTG
AATCAGAGAACATTCAACGACCAACCAGCCTCCCCCTGAAGATTCTGCCGCTGATTGCTATCACTTCTGCAGAATCCAG
TGGGTGAGTGCCCTCAGATGTCATTTCCCCATTTTATATTTTAGATGGTGATTGTTGTCTGTGGTCTTTTGAGTTTTTG
TGGCTCATTGCTTGATTTGAGTGGGAGAACAATGGGGTTTCTAGAGTCAAAAAAAAAAGGATGAATTTCTCAGGTGACA
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AAGTACAATTGACCCTTGAACAATACAGGTTTGAACTGCACAGGTTCCTTTATATGAGGATTCTTTTCAACCAAACACA
AATGGAAAATATAGTATTCCTGGGATGTGAAACTCATGTATACAGATGGGCTGACTTTTCATATATGTGGGTTCCACAG

Fig. 6 (136)

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Fig. 6. 137

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GGCCAGGCTGTTCTCAAACTCCTGGCCTTATGAAATCTTCCTGCCTCAGCCTCCCAAAGTGCTGGGACTACAGGCGTGA
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AGGGCACCAAGCCCATTTATGAGGGCTCTGACCCCATGACCCAAGCATCTCCCACTAGGCCCACCATCAACATTGGGAAT

Fig. 6/132

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CAAATCTCAACATGAGATTTGGAGGGTATAAATACCCAAACCATATCAAGCAAAGCACAATAAAACAAGTATGCCTGTA
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AAGTATTCATCTCAGTGAAATAAGGGAGGACATCACCTTTAAAATTAGTAGTATTTTGGAAAGGGGAAGTAAAGGGAAG
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GAGCCTAGCAGTTCTGGATTAGTGGGGTCTCTAAGAGCAGTGAGGTTCTCAAAGTGAACCTTGATAAGTGAACTGTTAG
TCTTATTGAATAAGCTGGTTCAGGCCATTTACAGCCTTATTTTCCAAAAGCAAACATTTCCTGGAGCAAGTACCTAAGT
TATTTTTGCTTGGTCTCCATGTGCTCAGCATTAAAACAGGCATTTAAACTTTGACTCCAAATTGTTTAGCACTGGGACA
GAAAAGTATTTTGGTTTCAGTTTTTACCTTCTTTGTGAGCGACCTAGGTTTGATCAACTCATTTGGCTGACAAGCCGGA
TCCTTTGTCCCTTATTTTATTTTTTTAGACTTATATTATTGTCACCTATATTGCTTGGAAATTTAGGAAACACAGTCCT
TGGGATAGCTGGGGGGATGAGAAGTCAAGAGAGGTAAGGTCTTAGGGTAGACAACTGGGTAGATACTGGGCTACTCAGT
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CAGGACTTTGAATCTTGAGGGGATGGCTCAGACCATCACATATGCCACTATCGAGTGGAAGGGCCAGTGGCATCTGTTG
TAGCTGCTGACAGTGTGGCGAAGAGCAGTGTGTGCCCAGCAGGTGAGGAATAGGGTCCCAGGCAGACTGATCCAGCCTC
CCAGCTGCTTATTATCTTCACTGGATTCTGCTCAAGTCTGCTTCTTCAAGCTCCCTGTTTATTCTGAGTTCTATCCTAT
ATTCTTTTGATGGATTCCTTTTCCTGCTTATGTCAATCCATCATTTCTATTGTTTGCAAATCACAGCCCTTGATCACTC
TAGAAACTAAAGTACAGAAAGTGCCCTGACTTTGCTAGAAGTTTAGGTGTAAAATTAGTAGTAAAGTTAGTAAGGAAAA
ACCAAAGGGGAAGATTGAATTTTATTTTAATGCATTATTTTTTTACATAAAAAGATAACAAAAGGAGGGTAGTGAAGAG
AAGAGTCTCTTGAGATGTCCGTGGCAAAGTTTTTAAAGCTCTCAATAAGGAGACAAGGACTGGGCTTCATTGCAATTAT
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Fig. 6.|39

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TCCCTTTTGACTGTTGAAGCTGGTAGGCTTACAATGGACTCCTAATGAGAGTGGTTTGCACTACAATTAATTAAGTGCA
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TTTATGGCCACATAGTATTCCATGGTGTATATGTGCCACATTTTCTTAATCCAGTCTATCATTGTTGGACATTTGGGTT
GGTTCCAAGTCTTTGCTATTGTGAATAGTGCCACAATAAACATACGTGTGCATGTGTCTTTATAGCAGCATGATTTATA
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CATTTCTCTGATGGCCAGTGATGGTGAGCATTTTTTCATGTGTTTTTTGGCTGCACAAATGTCTTCTTTTGAGAAGTGT
CTGTTCATGTCCTTCACCACTTTTTGATGGGGTTGTTTGTTTTTTTCTTGTAAATTTGTTTAAGTTCATTGTAGATTCT
GGATATTAGCCCTTTGTCAGATGAGTAGGTTGCGAAAATTTTCTCCCATTTGTAGGTTGCCTGTTCACTCTGATGATA
GTTTCTTTTGCTGTACAGAAGCTCTTTAGTTTAATTAGATCCCATTTGTCAATTTTGGCTTTTGTTGCCATTGCTTTTG
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GCAAGGAGAACTGCAGAGCAAAGTGGGGAAAAGCCTCTATAAAACCATCAGCTCTCATGAGAACTCACTATCACGAGAA
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ACCTTATCATCAGGGTCAAGACCTGGCAGGTGAGACATTAGCAGGTGAACACAACATTCTCAGAAACCCTTGAGAGTAC
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GAGAGTGACATAAGCTGACTCCGATTATGCCAAAGTAACCCTTACGTGGTATGAAAAGAAAATGAAGGTGACTATGATT
CCTGGGGCATTTGAGATTCTGAGAAAACTCCAGGTCAGCTCGCCATAAAAATTCCCCACACCTGTAGTTTAATTTACCA
ATTAGGAAATTATATATTTGGGGCTAAATGGTTTCTGATTTGTTGGCCTGAAAGAAATAATGTACTTTTAACAACTATA
AAAGTTCTCTGCTAGGAATATCTTAAATACAGTGAAAATCTGCCTTGACAGTGGACAGTAAGTTAGATTTCATTGTTGT
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Fig. 6.140

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AAATTGGCACCATTAACTAAAACCCTTGTCCATTCAAAATAATATGTATTGTCACATAACACTAAGCTCTGTTATTAAA
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AAATTAAAAATTGTTTCAATGTGTGTTAGTTTGATTAACTCCTTTTCATTAATTTACTTGTCAAGCAACCCAAGGGCCA
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CAATGTACTGTCTGATATCTGAATAATTTCTATTGATTTAACCACTTGGCTTTACTGCATTTTCTTCATACTCCAATAA
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Fig. 6.141

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TTGTATTTGAAATTTTCTTATTCATTTATATTTTTAGTCCTTTAATCTAAAAAAATTAAGGATAAAAAAGCATCCTTCA
CGTATATTGAAATCAGGAGTCAGTAATTTTTCACTTGTTTAAACATTCAAAACATCTTTCTAACTCACTTCTTGATATT
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GAGCCTCGGCAGGTACTTATGCAAGCAGAGAGCCCTGCAGCTTTGGCTTTTATCATCTTCACCATAAACCCATCTCTGA
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TCAAAATCAAGGTGCTGTAGGGCTGGTTCCCTCTGGAGGCTCTGGGGGATGATTGCTTGCATGCCTTTCATAGCCGCCA
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CAAACTGTTTTCCACAGGGTCTGAACTAATTTTCATTTCTGCAAACAGTGTACAACCATTCCCTTTTCTCTACCGTCTC
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GAAGGGAAGAGCTTTGAATATCATATATAACATTTTCAGATAAAAGAACTTAGGTCCAGAAAAGCTAACTCTTTTGCTG
GTGACTAAACATACACATACGTGCACTGACACACACATATTAAGTTACTGAGTTGATAGCAAAAAAAAAAAAGTGCAACT

Fig. 6.1142

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TTATATGGAAGTAGAATTATGTAAAAATGTCTGTCTAATTCTATACTGGAAAATATCTCATATGAAATGGCTCCTTCAT
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GTGACCACCTGCTTTATTATTCGGGGTTTTCTGCCATCTAAGACCTGGGCCACTCACCTGGATTTTTGAACTCTTGCTT
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Fig. 6.143

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```

Fig. 6.155

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ATAGGCGTGCACCACCATGCTCAGCTAATTTTTGTATTTTTAGTAGAGACAGGGTGTCACTATGTTGGTCAGGCTGTTC
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Fig. 6.145

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CCTCAGAAAGGCCTTCTCTGACACCTCAGCACAGTCCTCCTCACGGAGGTCAGATGTATTTTTTCTTCAAGGCACTGACT
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CAAGGGCTTTATATGTTTTGCTTGCCATTGTGTCCTCAGTGCCTAGGCCATTCACTGACCCACAGTAGGTGCTCTGATA
AATATTTGTTGAGTGTAGAATAAATGAAGACCCTTAGAAGCATAAAATATATAATCTCAAAGCAGAAGATACTTTAGTT
AGAATAAGTTAGGTTCAACTATATTAACACTCCTTACTACACACACACATAGCTACACTCATCAATTTTGGTGGCTTAC
ACCAAAAAGGCTTATTTCTTGTGCACACTGCATTCTTGTGCTTTAACAGGATACTCCGCCCTACCTCATCTTTATTACA
GACCTTGGCTGACGGAGGCTACCACTTGGAATATTGTCTATTTTCAAAGTCCAGCAGAAGAGAAGTTAAGAAGGGTTTC
ACTCTGGCAATTAAATATTCCAGCTAGGAAATGACATACTTTATCTTCATATACAATCCATTGGCCATAACTAGTCTCA
TGGTCCTGCCCATTTGTAAAGGGGAAATAGGTAATCATCTCATGCATTGAGGAGGAAAGAAGAATTAGATACATGTGAC
CAGTAGAAGTCTCCTTACTGACATTTTAATGTAGAGCTGTATGTGATTAAAGTTAAAATTGAATCTGAAGGGCTGACAG
AAAAATTCAAGAGGATATGATATTTAATAATTGAACGAGGCTGAAAGATGAAATTTGGACAGATTGAATGGGTAGGCCT
TGCTAGCAGGAAAGACAAAATAAACATAATCAAGAAGTATGTATGAACGTGTGCCCAGGGCAGTGAGGAGTGATCAGCC
TCCTTGAAGTGGAGGATGTGTGTCAAGGAACCAGAGGAGATGATTAGAGTGGCAGACCTGATTATTAGCATATCCATGC
TTCTGTCTGAAGCCTTTTTGGCCTATAATGTAGAAATATCCTTGGAGTAAGCAGTTCAGCATATGGTTTTAGACATATA
GGTCATCTTGGCTGGATTGCATATTCTTCATTTTTAAAATTCCAGGCTGTATTGGTTGATATGCAGTCCAGAAAGAGCT
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Fig. 6.146.

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GGATCTGACTTAAGAAAATAAAAACTGCTTTAATCCCTCTTTTCAGCCCATTGTCTATCCATTAGCAGGTAAACACCAG
TGTCCCTGCAAGTGTGTGAACTGAGCTTCCTTAATTTCACCTTTAATTGGCACTTCTAGTGACTTAACTGAGTGAAGAG
ACCCTTAGCAATGATACAAAGTGAAGGATGGTATAGAATAATAGGTTTTCTGAAAACCTGAATGCAATTGAAGGGTGCT
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AGTTGTACTGGTTTTGGAAAAGGAAAGTCATGCTGTTACAGTTCCACTAATAGAAAACAGATAATTTGGGAGGAAATT
AGATTGGAATAAAAGCACGTTGTTAAACAAGAAATCACAATAAAGTATTGAGTAGAGAGAAACCGTTAATGGAGACAGC
TATGTCATACCTAATATGCCCTCTTTTCATTGATCCTTAGAGGAAGCATAAGATCGCAGCTAAGTATGGTCTCTTGAGC
CAGCCTGCCATGATTCAAATTGAAACTCCATCATTCACCACTGTGTGACCTTGAGAAAGTTATGTAATCATTCTTGGAT
AGTGATTCTTACTGCTATGGACAGATTTGTGTTCCCCCCAAATTCAAATGTTGAGGCAACTGTGTGAGGAGAGAGGGCC
TTTAGGAGGTAAAGTTAAATGAAGTCATAAATGTAGGGTCTTAATTCAATAGGATTAGTGGCCTTATAAGAAGGGGAAG
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AAACTGGAAAAGAGTCTTCACCAGAACCTGACCATGCTGACACACAGATCTCAGACTTGCAGCCTCTAGAACTGTGAGA
AAATAAATGTTGTTTAACTACCCATTCTATGGTATTTGTTATGACAACCTAGCTGACTAATACACTCACCTATAAAG
CAGGGATAATAACAGTGCCTATATGATAGTGTGTTTACAAGGATTTAATATATGTTAGTTTATATTATTTTATGTCCAT
ATATGTTAGCGTATATATTATTTTATGTCTATCTCTAATTCCTCATTGAGGATACTTAAGAATTCTACTTTCCATGTTT
GACAGACCTGGTTTGGATTTCAGTTCCACCTCTTGTAAACTCTATTACCTTGAGCCAGTGACTAATGTATCTAAGCCTC
CATTTTCCTATCTGTAAATGGGGATGATAACTAGTGCTGCTTGTCTCTTCAGGTTGTTGTGAGGATTAAAGGAGATATG
CATGACAATTCATCTGCCAGGTAGTAAGCATTCCAAATATGCTATTTACTGCCATCATTAGAGGTTTGCTGAGCTTCCT
CTTTTGCATTAAGTAAGAGACTATTCTCTCCAGAAAACTTTGAACTACATGATGGAGGAACAAATAATAGCAGTTTCTC
CTCAACCTTGGAACTCTAAAAATGTTTTTTCTAAGCCATTCTTATCTTTATTTTGTCATTAAAAGATACATGCATTGTG
CATTTTGCTTTTATTTAATATATGCCATGAGTGTCTTTCTCCCTATCATGATGTCAATGTTACATTACAGATTCTAAGG
AGCAGGGGCCATATCCCTTAAACATGATTTATTTAAAATAACAATATAGGATTGGATGTGACTACTGCTTTTGCAATGA
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CAGTTATTATCTCACAATGTGAAGGCAGGAATCTATAGACAGATTATTGAACATCTCATGTATCATATCATGTATATCA
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ACATTAAAATTCAGATGCTGATCAGGGAGTCTAGAATGGGACTGAAGTGCTGCATTTCTTTTCTTTTTTTTTAGACTTT
AAGTTTTAGGGTACATGTGCACAACATGCAGGTTAGTTACATATGTATACACGTGCCACGTTGGTGTGCTGCACCCATT
AACTCGTCATTTAACATTAGGTATATCTCCTAATGCTATCCCTCCCCCTTCCCCCTACCCCACAACAGGCCCCGGTGTG
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AACCAACCCAAATGTCCACCAATGATAGACTGGATTAAGAAAATGTGGCACATATACACCATGGAATACTATGCAGCCA
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TTTTCAGTTTTTATCTTCCATAACACATTAAATCACCTCAACCTTCCTAAAAAGCTCTCCTTGTTTTCTGACTTTTAAC
TGTCTTGAGTCTCCATTTCTCAACCCCTAAGTCATGCCCAAATCCTGTTCTCTGACATTTTCTCATCTCTCTTACTTTC
TTCTCCTTGGGAACTCCCATCCACTGCCACATATTCAAACATTAAATTCAGCTCTCTATACACTTCTGCATCAGTGTCT
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GTCGTCTCTCCAACTTCAATATTTTTTTGTACCTATATCTTCCATTGCTTTTAAATATGGGTTGACTTAAGTTTGCCT
GAATCCTGTTTCCAGAATGTGCCTGGAAACTCCCAACCTCCATGCCATTTCACTCTGAATCTAAAGATCTCGTACCAAT
CTTTGCTTATTCAAATGTTGCATATCTTTTAAGGCCTACACGAAATGCTACAACTTTTGTGGTATATTCTCTAATCCCT
TACCTGAAAGTGATTGGTCCCTCCTCTGCACTGCTATAATGCATATTCTTTGCTATTTAGAAGACAGCCCATGCTGCAC
TATATATTATAGATCTATGCAAATATCTGCCACTATCTGAAACTTCAAGGCTCCATCTCTTCTCCATTATTCCTCCAAA
CACCACTCACAGCAGGTTGTTGTCAGTAATAAAATTTTATTGAAAGTTTTGGGGATTATGCAGGGCAATTATAGCAGAA
GCAGGAATCAACTGGAATTAGAGTGATAGAACCACAGCCCTTAGACATGTATCAGACACTCCCTGACCAAGTCTGTCCA
TGGACACAGAACTCCTCACCTCCAGATACTTCCTCTTGCATCTCTTCTACCAGTATCATAACCCTCACAAAAATGACAA
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CAAGGTGGGCGGATCACCTGAAGTCAAGAGTTTGAGACCAGCCTGGCCAACATGGTAAAACCCTGTCTCTACTAAAAAT
ACAAAAATTAGCCAGGTATGGTGGCCAGTGCCTGGAGGCTGGGGCAGGAGAATCGTTTGAGCCTGGGAGGCGGAAGTTG
CAGTGAGCTGAGATGGTACCACTGCACTCCAGCCTGGAGGATAGATTGAGACTCTGTCTCAAAAAAAATAAAAAGAAAA
AGAAAACCCTCACCTTCTATAATCAAATAGGTTTTTAAGTGTTTTCCTAAGCTTGATAGCACTTCAGTCTCTCAGAGGA
ATTCTGCAGTCCTGCAGTTGTCTTGGGTCAACCAGCCAAAAGTTAACTAATTTGCATAATGGCAGCCCCATAAAATGCG
CAAAATTATTATCTTTTATATGAATGCTTATTAATATATATATATATATATATCTCCTTTTACATCTATCTAGAAAACG
TTTTAAGGGAAGAATCATATAGCTTCAAACATTTTTGTTAATTACAATATGGAAGAAAAGAGAGTTCAATTCCTTAATC
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Fig. 6.142

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TATCATGTGTGAGTTAGGGGACTTTAAGCAAGTTATTTTCTTAGGAATCCTGTTTCCTGACCTATCAAATGAATGTAAG
AATAGCTACCTCACATAAGTGTGAGGACATAGATAATTTCTATAAAATCATTTAGTTAGAGTCTTGGCACATAGTAGGA
GCCCTGCTCTCAGTACAAGTTTAAAATGTCTGTTGAATGCTAAAAGATTACTCCATTGAGCTTTTTCAAACTTTAAAGT
GAGTATAGTGTTTCACTGTAGGATTCCAAAAGCTGTTTGATGCTATGATTTCTTTCTCAACATCATGTTTACTCTGAAG
ACATTTCCATAGTGTTCTACCCTTAATTGAACAGAGATAGGAAATCACGACTTTAAAACTTTCAGCGTTAAGAGTAAAT
GACACATTAGTTTAGAGACATATCAATAATTATGGAAGTATCTTCTCAAACTGTAATGTTTTCCTCTGCCTTAGTGCTA
GCAATCAAATCCACTGAATTAATCTGAGCAGGGTCAGGACTTTGAACCTGAGGAAAATCACTTGAATTTGAGGCATTAA
GTGTGCAGTACAAGGTGTTCCAGCTACAAATTTTCTGAATCCTATTTCAAAGCAATGGTGCAGGAGACCAGATAGCCAC
CTCAAAACTTCTGAGTCCCATAGTGTTTTGGTATGGCTCCAGAAGCCTGTTGCTGCCCCAGAAAAGGGAGATTTCACCA
TTTCTAAAGGGTTAGCTGCTCCCTGGGGATGACAGATAGGTGGCAAAAATTGGAATGTAGAAATTTTCCTTATGTTCTA
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TTCCCTCCATGTATGAATTTTCTCTCTGTCTTTCTAAGTCCAGTGTAGAATCGATTTGGTATCTACCGACTTTCCAGAT
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GGTTACTGATGATGGTGGGGAGGTCTTTACAGTGTGATGGCTTGAAGTACAAAGTACAAACTTGAAAGTCAGATTACCA
CTTACTTTGGACCTTAGGCAGGTTACTTAACCCCACTCTGCCTCAGTTTCCTCACCTGAGGACTTAATAATAGTAGCTA
AGCAAATGAACTTACTAATAGTAGCTACTTTATGATTTTTATTAGGATTAAATGTAATGGTGCATATGAAATTAGTAAA
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TGAGTTGAACTGCATTTTTGACAGGAGACAACTTAAGTTATAAAAATCCTATTTTCTATTTATACTATCATAAAAGTCG
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CCGGTTTTTTTTTTTTTTTTTTTTTGGAGACGGAGTCTCGCTCTGTTGCCCAGACTGGAAGTGCAGTGGCACGATCT
CGGCTCACTGCAAGCTCCGCCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGA
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GGTGGGCTTGTCTTAGGCAGTAACTAAGCCTAGAGTCAGGTCTACTAATAATCCATTAAGATGCTGTGTTAGAAAAATC
CTCTCCAAATATGATGGAAATAAGTATGTATAAGAAGTATTTCACAGATGAACACATTCCCACTTTATTAACCAAGTGC
CTGTGTGCTTGCTTAAATTTTTCACATTTTCAGACACTTAACATATTATAGAAAATAACATCCAAAGAGAACATGATGT
TTAGCTTTTTGGATTCTTTGGGATTAGAGAGCAAACCAATTTTGAATTAAAAAAAAAAAGACTGTAGATACCACATCCTT
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TCACCTGTGTACATGCAAAACTGCTGCATTTGCAGATTAAGTCAAAATTATATATAGAGAGAGACACACACACACATA
CACACACACACATATATTGAAAATCTTTAAGTACATCTAATTTTTTATGACTCAGAAAAGAATCCTTATTTAAGCCCTT
TTTACTACAGCAAAAAATGTTAATGTCCATTAAATTAATGGACTTTGCTCTGATTTGGGGATGATAATTGCAGAAATGA

Fig. 6.148.

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GTAGGGATATATATATGATCTAATATATAGAAATGGATATATAGAATATATATGTATATAGAATATATAGAAATTTCTA
ATATATAGAAATTTCTAATATATAGAAATGGAGCATTTTAAGGTCTGGAACTTTGGGGCTGTCAACAGTTATAAGAAAA
TATAAAGAGAGATATATACAGAGAGAGTAATAACAGGTAGTCCCAGGAGTAGGACAGGAGATTAGTGGCCCAGAATCAA
TACCATATTTGTTCTATTTCATCTTTTTGCAAGACAAAATAGATACCCAGGGGGCTGGGGAAGGTGACCAGTAAGTTAC
TTCCATTATTTTCTTTTTCTTTTTCTTTTTTTTGAGATGGAGTCTCACTGTGTTGCCCAGGCTGGAGTGCAGAGGCACA
ATCTCGGCTCACTGCGACCTCCACCGCCTGGGTTCAAGTGATTCTCCTGTCTCAGCCCCCCGACTAGCTGGGATTATAG
GCGCGCACCACCACACCTGGCTAATTTTTGTATTTTCGGTAGAGACGGTGTCTCAGGATGTTGGCCAGGCTGGTCTCAA
ACTCCTGACCTCAGGTCATCTGCCCACCTCAGCCTCCCCTATTACTTTCTTCCTTTATCCTTTTCTACTGTTTAAAAGC
TCAAAACTTGTTGAAACTCCCTCTCCATCAGATTCTGTGTGCCCAAAGAACTGTCCTTGGAGGAGAGTTTCAAATGTCT
TTCATTTTAATGTCTGGCCTTGGTGATTGTTTAAGAAGTCCCCTGAATGAATTTTTGGGTGAACTCGGGGCCTAGACTG
GCTCAGGAAATCTGGCACTGAGCCCCATATTTACTTTGGCCAAACACAATACTTGCTGTGCAGCCACATTCACTATGCA
CTGCTCACACCACGCAGCTTGAGAGCTTTGTCCCTGATTCAAATCTGCTGGGTATTATTCAGTCTGAAAATTTACTTTT
ACACCAAGCATATAAACAAAATGAAATACAGTTTAAGAAATCAGCTCATAACATTTACAATTAAATTCATTAATCAAGG
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TTCGTACTAATTAGCACCTGCACTGAATTCAGAAAGCAGCACTTGAATCAAACCAAGTCAAGCTGTCTGTGAAGGAAAA
AAATACCAAGTTCCAAGATTTCTTGTTAATGGAGATGAACAGTACACTTTGTTGATGTTCTTATTCACATGTGTCTTCT
TAAAGTATGAGAATTTAGTATATGTTCTTTCAGTATATGCAAATATATCCACATGGGTATTTTCAAACTATGCTGCAGT
GTGCTTTGTCTGGTTACCAGTTTTTATTCTAGTACAAGAATGCAGGATGTTATTCGTCACATTCACACTATATTAATTT
AACCTCCTAGGTCTGGGAGGAGAGAGGAGGAAAATTAAAGGAGGCCCAAGCTTTGCATTTGAGAGAAAAAGTGAACTGG
GTCTTGAAAGATGTCTTAAGAAACAAAAGAGAGAAAGAAAATAGAGGAAATGTTAGAAGTTGAGGTAAAAGTGTGTCAT
GGAGTAAAGAAGAGCATGGAGAGAATACTATTAGTCAAGAGAAACTGCAGCTCAAACACTCAAATGCAGAAGCATCATA
AACAAGCTAAATTCCACTCTTCCTTTAGTTCATGTGTTTTGGTCTATGTAAGCTGAAGACAAACTCTCCTTTTTCCATG
CTCCCATACCTCATAGAATGTGTTTGGAAGTATTCTCTCCTCTTCTATTTTTCAGAATAAATTGGGAAAATTGGTATTA
CTTCTTTAAATGTTTGGTAAAATGCAGCAGTGAGGCCATCAGATCCTGGGCTTTTCTTTGCTGGGAGACTGTTTATTAT
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GTCTCAATCTCCTGACCTCGTGATCTGCCCGCTTCAGCCTCCCAAAGTGCTGGGATTAGAGACATGAGCCACTATGCCT
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AATGTTATACTATCCTGCGTTTCTCTGCATATTTACTATCATCAGTGAGTTTTGTATTTTTAATTGATTCTTATTGCTC
ATTAATGTCCTTTTCTTAAGAAATCCCTTTAGCATTTCTTATAGGACAGGTCTGTTGTTGATGACATATCAACTTTTGC
TTGTCTCAGAAAGTCTTTATATCTCCATGCATGAAGGATATTTTTGCTGGATATACTATTCTAGAATAAGAGGTGAGAT
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TATTTGTTTATTTTCTCCTGTTGCTTTTAGAGTCCTTTCTTTATCTTTGACCTTTGGGAGTTTGATTATTAAATGCCTT
GAGGTAGTCTTCTTTGGGTTAAATCTGCTTGGTGTTCTATAACCTTCTTGTACTTGAATATTGATATAATTCCCTAGCT
TTGGGAAGTTCTCTGTTATTATCCCTTTGAATACACTTTTTATCCCTATGTCTCTCTCCACCTTCTCTTTAGGGCCAAT
AACTCTTAGATTTGCCCTTCAGAGGCTATTTTCTAGATCTTGAGCTTGTGTTTCATTTTTGTTTGTTTGTTTTTCTTTC
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Fig. 6./[49]

TTTTGTCTCTTCTGACTGTGTACTTTCAAATAACCTGTCTTTAAGCTCACTAATTCTGTTTTCTCCTTGATAATTCTGC
CATTAAGAGACTCTGATGCATGTAAATTACACTTTTCAACTACAGAATTTCTGCCTGATTCTTTTTATTTCAATCTATT
TGTTAAATTTATCTGATAGCATTCTGACTTCTTTCTCTGTATTATCTTGAGTTTCACTGAGTTTTCTCAAAACAGCTAT
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GATCACGTTTTCCTTGGTGGTCTTGATGCTTGTGCGTGTTCATCAGTGTCTGGGCGTTGAAGAGTTAAGTATTTAGTGT
AGTCTTTGCAGCCTGGGCTTGTTTGTACCTGCCTTTCTTGGGATGGTTTTCCAGGTTTTCAAAGAGACTTGGATATTGT
GATCTAAGTTTTTGTTCACTGCAGCTATGTCTGCATTAGGGGGCACCCCAAGACCAGTAATGCCATGGCTCTTGCTGAC
CCATGGAGGTGTCCCCGCTTGGTGTTCTTGAATAAGATCCAGAAGAATTCTCTGGATTACTAGGCAGAGATTCTTGTCC
TCTTCTTTTACTTTCTACCAAACAAATGGGGTCTGTCTCTCTCTCTGTCTTGAGCTACCTGGAGCTTGGGGAGGGGT
GACACTAGCACCCTTGTGGCCACCACCACTGGGATGGCGCTGGGTCAGACCTGAAGCCAACACAGCATTGGATCTCTCT
CAAGGCCTGCAATGACCAGTACCTGGCTACTGCATATGTTTGCTCAAGGTCCTAAGGCTCTACAATCAGCAGGTAGCAT
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GAATTTCAGTCTTTGTGGCTTAGACTGTCGTTCAAGTTTATTTAGTACCCCAGAACACTTTAACTTATGGCAGTGAGGC
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Fig. 6.1150

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Fig. 6.(15)

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Fig. 6.152

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CTGTTTTCTCCCTTCTCCATTGCCAGGAAACACATATGGAATAGAAATAAAGTAGAAACAAAGGAGAGAAGAAGGCAG
AACTAGTTTCAGTTTTAAAATACAGAAGCTCTTTATCTCACTAAAATATTCATTGCCGGCTTAAAGGCAAAGCCCTATT
ACTAGTTCAACACAGTTCATAATTTTCAAAAGCACTACCCCTGTCATGGTACTGTGGGAGTTCTTGGTTTTTTACTCCC
CTAATTTCCTAAATTATATGTATAACATCATATATGGAATATAATATGTATATATGCGTGTATACTTAGGTATACATG
CATTATTTATGTAACAGATATTGTGCTGAGCATTTTACATCTATTATCTCATATAATCTTTACAGTAACATTGCAAAGT
TGATTCTGTTATTTTCATCGATGAAAAAACTGACAGAGAGGTTAATGTAACCCATCTGTGGTTACACATCTAGAAAGTC
TTGGAGCTGAAACGGAAACTCAGGGCGTTCTGGCTGTAATGCCCATTCTCTTAATAACCATGATAAATGACATACTTTT
AAGAATGAATAATATTTAACTGTGATGAGACTACTGATTTGGTTTAGATTCATCATTTCTAAGTTACTTGACCAACATC
AAAGAAGAACTGGGTCAATTAGTCCAATCTGTGGTTTATAATTGGCCAATTAGTCCACATCTTTGAATCTGCACAGGGA
CCACTTGCACATAAATCTAGATCTACATTTGCCACGCTCCACAAAGCATTCTGAACAATTCACTGTGTTCAAAAATGAG
```

Fig. 6.153

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ATTTCTATTATTTATGCATGAAGAAAATATGCTGTTTTCCATGCACTGAGCCAGGGGGAAAACTACTCAGCCTTGGTAA
TATTAGACCATGGATCTTCCATTTATTTTAAATGATAGTGTCATGCTGAGGAAAATAATGGTTCATATCCTTCTTCTCC
TTCCTCCAAATACTATGTCAAAACTACTTTGATTAAAATAAATAAAATCTTGTATCACTGTGCCAACTCTGTAAGAAGA
CAGAGCAAGCAAGCAAACACATTAAAAACTAAGGTGTTGGAGAGTCTGCCGTGACTTGTGAATTCTGTATATTTTTTCC
TTTCCTGAAGTTCTTATTTTCTTTTCTTTTACTTACCAAGTTACTTGGAAATTTAACAATTTAATAAAAATAAACAGCA
TCTTTTCCCAATATTTAAAAAAATGTATTATTCATTAAAAATTTTGCATTCACAAAAAAGTGAATAATTGGGCTCCAAT
CTGAGTTAGTTTATGAGTGTTCCCCAGGTACCTATCCTCTCTCTTTTGGAGAGAACATGTATTCCTTGAGGACAGATTA
AGAAACTAGTCTTCCCTTAATGCTGGGAGCCTCTTTGAAGTCTTATTTACTTCAGATCTTAAGGGAGAATTGTGGTACG
CTGAAAAGTATCACATTTGTTATCACTTGAGGAAACACCATTTGATCTAATGAGCTAGACTTTTTCATCTTTCAATTCA
TGACAGCTATAGCTACATTAGAAATTGCATTTTGGAGGTCTTGGATAATTATCTAAAAATATTCACAAACCCCTTGGAG
GCTAATGAATTTAAACTTGGATGGCTAATCCTAAAATGGCTTTATTCCAGCAAAGTGGGAGAGAAACTCCCCTTCTTCT
GTTTATTTAAGGTTTCTAGTTTGGGGTCCTGGTTCTAGTTTGGAGTCCTGGAGTTCCTTTCAATGTGTTTCCATAATAG
CCTGATTCAGAGGAGTCGGGGAGAAAGAAAGAAACAAAAAGAAAATGCCTTGTTTATTTTATTTACATATATACATACA
TATCTATACATATGTAAAATGCACATGGTAAAGCATAGTATTTTGCACAAAATCTTAAGTAAAGACAGACTTGGGTTTA
GATTTATAATAGGATTTAGTAATACTAATACCAATAACAGCAGCAGCAAATTCTTGAGTGCATGAAATGGATTACTTTA
TGTAATTTCTGCAAAGTCCTATCATGTATATTTTGTCACTAGTTTATTTTACAGATGAGGAAACTAAGGCTCAGCAAAG
CTGTAAAACTTGGCCAAAAAGTCATGCAATTTTTGAGGATTCTGATTTGCTCTGTCTGGTGCTTATACCCATCTTCTTA
AATAGAACAATCATGAGGAAATTGACAATGTCCACAGACATAAGACACGCTTGCAGAGAACTAGGTATTGGGACACTGC
AGAGAGGCAGGCAGGGAACACTGGCCTGAAGTATGAGCTTTGAAACTGGCAGTCTTCATTGTAATCCTGGCTTTGCCCT
TGCTGTCTGTGTGTCCTTGGATGAGTTACCATCTTCTGTGTGCTTCAGTTTCTTTATCTGTACAATCGGGATAGTAATA
AACTAATTTTTGAAAACCAGCTAAAATAATGCCTGGTTCATAGTAAACCCAATAAGTAGTAGTTGTCAATTTATTAGGT
TGGTGCAAAAGTAATTGCAGTTTTTTTTCTATTACTTTCAATCACAAAAATCGCAATTACCTTTACAACAAGCTAATAG
GTATCCTGCCTGCTCTGTCTTATCCCTTTCACCCTTTAGAGCAGCTAAACATTAGACGAGTGCCTCATCCAGAGATTTA
TTGCAATATTTTATACATCAGAACAGTTTGAAGAACCTGAGATAATATTGAGAAGATAGAGAATTTTTCTCTGTCACTC
CCCATCTTCTATTTTAAACTAGTAATTCTCCTCTCTTGCCTGCAAACCCCGCTTCCTAATCCTTAGGCAACTGTCCTGA
GTTCTTGTTAGTTATTACTAATTCCTGCTGTGATGTTCGTTGATAGCTACAATGTTAGATGATAAGGAATATTATATTT
TAAAGTCAGATATTTGAGAAATAAAATTGCATTCTCACTCCAAGAAAAGTTTCTGCATATCCAAAGGATGTGGGGGATA
GATATTTAGGAATATATGTGTGCCAGGATTGGGCAACTCGCAGCCAAAGAATGGAACAGGTTTACCTTGGATTTGAGAG
CTACACACACCACTTCACAAAAATTTTTATCTTAATTTGGTATTAACTTTATTTAACTATAAAACTTTAAAACTAAACT
TTGAGAGGAGGATGAATTTTGTTTTAAAGATGTTTGTAGTTATTTTTAGCTCAGAGTTCTATTTAGGTTCCCCAAATTT
TGTGCTACAACAGTTTTAAAAGTCTGCCCAGTTATTTAATCTGGGGAGATTACAAATACAGTGTTGACGACTGGCCTGC
AGCTCTCTCTTCTGAAATGAGATATTCAACTCCACATGGCTTACTGCCTCTTCCTATCCCACTTAGTTTCCATCTCTTC
TGCTGGTGATGATGTGAGTTCCCTACCCTGTGGGGTTACAATTGCCCTTATGGTTTTTTCTTATACAATATTCAGCATTA
TAACATATGTAGGTTATAGAGCATATAATATATGAACTGCAATATTATCAATATGTTGTATCTACCTGTGGGCTCCTTC
CTTCTCTCAGTTACCATATTTTCCTTCACCACTCACTGGGTAACAACCATCTGAAATTTCATGAATTGCATAACCTTTC
CATTTTTAATACTTTTAAAAAAATCATATATGTATGTATCCTCTAAAATCTTGCTATGTAAGTATGGTCCACAGATCTAT
GCATGAACATTGCCTGGGAGCTTATTAGAAATACTGAATTTCAGCATTGCCCCAGACCTACTGAACCAAAATAAGTATT
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GGGTTGTTTTGTTTGCTTGTTTTCTTATTTGTTTCTTGTTTTTGAGTGTTATAAGAATGACATTCTGTTTGTTGTCTTC
TGCTACTTGCTTTGTTTGCTCAACAGGGCATTTTAAGATTCATCCAGGTTGCTTTCTGTAGTTGTTCATGGCTTCCTGA
TGTAACATTTGTGCTAATAGTCCTTCCTGCTAAACACTTAGTTTGTTTCTAGCTTGTGTTATAGTGTATAATCCTGCTA
TGAACAGTCTGGTGCATGTCTCCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
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TAACTAATGAGATTGGTCAATTTTTTCATCTATTTAATTACCATTCTGTTTTCCTTTTCTGTGACGTGCCTTTTCATGT
ATTTTGACTATTTTTCCATTTTTCTCTCATTGATTCATAGGAGTACTTATTTTGAAATAGTCCTTTGAGAGTTACATGG
GTTGCTATGTTTTCTTCCAATTTATGACTTATCCTCTCACTTTCTTGATCACTCTTGAATAGAAGTTCCAAATGTTAGT
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TCTAATAATTTCAGTGGATGGGTGGTTTAATACATAATTTAGAGCTCTAGGATGATATTAACTGAAATATTAAACAGTC
TTCAACTGGTATTCTTAAATAACTCATCAATTGGCATTTTACTTTCAAAAGGCCTATGTTTAATTTCTCCCATTTGTCA
TCCAGGCAAGATCACAAGTTTTGGACTTAGCTTGACGAGGCTCAAATCCAGGCTTTGAAACAGCAAGTATCTGACCTTA
GTTAAGTAATTGTCCCCATAAGCTTCAGTTTCCTCATATGTAAAATAGTTGCTGCTACAATTCTTCTATTTTAAGAAAT
CCGTTAATTACAATAGTTGAGTCAATTTAATGGGAGCTTTTTAAAATGAGAACTATTAGTTTAAATTTACATTTTCTTA
AGTGATTTAAAAATGCATACATTTTGCCTTACCAATGCCTACCTACCACATTACTTTTCATCATCTCAAACTATAAGAT
TAAATCTTTTCTACATTAAGAATCTAAAGATCTTTATACAGTTTTAGCCTTTGGTAGTTGGGCCTAATTTCAAAGTGAC
AAGCTCTTTCATGATCTCTTTTACATTTTTGAGATCAAGAGTGACATTTCAAGGCATATTGATTCATTTTTATAAAAAA
TATAATTATCAACCACAAAAAGTTAAACATCTCTWAAAAGTTAGCTAAGAGCTTGTGACAGATGGACATTTAGCAACTG
AGTAATCATTCTTCAGGTCTCACAAATCTGTCACTTTGAAAGTTCTATGACATCTTCTGAGGGATTTGGTAATATCTAC
TCATTTTAACTGTATTGCTGCTGTGTGACTGGCCATGATTTTATAGACATTTCAATGCTAAAGCAATATGCAGCTTCCA

Fig. 6-154.

ATATCATTCTTATGAATATCTTGTTGCTTTTCAATAAGATATGGAAGTGCAGTTTTTCTCCCAGGAAGAAATATTTTTT
CACTTATAGTAAATCTTTGTCTCCTACCCATGTTTTAATTTTCTTCCTATATACAAAATAACTTAGCTCTTCAATGAGG
TATTAATAATTATAGTATGAACTTTTGAAGACATTTTAAGTAAATAGTGTATATATATATATGTGTGTGTGTGTGTGTG
TGTGTGTGTGTATATATATATTTTTTTTTTTTGATATGGAGTCTTGCTCTATTGCCTGGGTTAGAGTGCAGTGGTGT
GATCATGGCTCACTGCAACATTCACCTCCCGGGTTCAAGCAATTTTCCTGCCTCAGGCTCCAGAGAGGCTGGGGTTACA
GTTGTGCATTACCACACCTGGCTAGTTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTTG
AACTCCTGACATCAAGTGATCCGCCCACCTTGGCCTACAAAGTGCTGGGATTACAGGCATGAGCCACTGCACCCAGCCA
AATAGTCTTAATTTAGTTAAGTGCAAAGTTCATCAATCTGTAGCTATATGAATGCAAGTCAGAAATCCAAAGTCCTTAC
CATGACCAGCATGGACTTCCTTGATCTGTCATTTCCAAACAGCTTTCACCTGACTTCATCCCAGGCCACTGGTTGATTT
CTTGCTTCCTTCAGGCCACTCTACCATTACTCTTTTGGATAAGCCTAACTTGCCAGCCAATGCAAAATAGCACTCCCAA
ACATCACACTCCAACTTCTTAATTTGCTTCAGTTTGCTTCATAACACTGAGCTCCTGTATCTGATATTATTATTTATAT
TTCTCTAATTAAAAGAAATGGAATAAACACTTAAGCATCTATATATATATATTTACCACTTAAGCATATATATATATAT
ATTTACCACTTAAGCATGCATATGTATATATAAATACATATATATATATGTGCTTAGGTGTTATTCTGTCTTTTTTAA
TTAGAAGAGGAGGGCCAGAACTTTTCTTTATTTATTGACTTTTTTATCTCCAGAACTTAGGGTTGGCACATATTAAGTGCTCA
ATAAATATTGGTTAAATGGCTGAATTAATGTTGAGACAATCAGGTGAACAGGTGTTTTCTATGTAGAGTTAAGAGTCCA
ACGGGCTATTCTCAACATTGGCAGAGGACTAGCACAGTTCTTTAGTCCCCACTGAAAGACTCATCCTGATCATTATAAT
GTTAAAATGTGATGAAAAAGCATACTGTTGCAAGAATTAAATAAAATAATGTATGGAAAATGTTTGCCAGAATCAGAA
TATCAAATGTTAATTGTTCAATAAATGCAATAAAATTAATTCCATCTGAATCAATCCTTACCCCTTCCTTTCCTGTAAC
AGTGGAAATGTTGGCTTTTTTCTAGTTTGGGCAAATGCTTCCATCTGTGCCCTGCAGTTCAACGCCCCTCAACCCCATC
TTCTCAGGGACAACATATTGTTATTTTCCTTCCTTCTGTCATATCTGTTATTTCTCCCTCTCTTTGCATCCTACTCATC
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TGAATAAGAAGTAATTCTTTATCAGGCTTCTGCTTATTGCTCAGCTGTCCTTGCAGGTTTATAGACTTATTTGCCATTT
TCTGAATGTCCAATGCCCCACAATATCTCTCATCTCTAAGTTATTGTCTGCGCCAGTCTCTGCCCAAAATGCCTTTACT
CCTTCATCTCCCCAAGACGTACACACATTCATGGTCACACATATGTATTCACACATACTGAAAATAGCTAATTTCAATG
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TCTACTCAACATTAAAGACCTAAGTGAAATCTGAGACTTTCAATGCCTTTGGATATGTAATTAGACAGGAGTTTAGCCT
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GTAGCACTCATGCGCTCAAGTATACATAGAATGTATGCAAAGTGAAAGTCTCCTTTAAATCTTCCTCCCATTGACTTGA
GCAACGAGAACACGTGGACACAGGGAGGGGAACATTACACACTGGGGCCTGTCGGGGGGTGGGAKGCTGGAGGAGGGAT
CAAACCTGCACATTGAGCACATGGACCCCATAACTTAAAGTATAATAAAAAAAGTAAAAAAAAAAAATCCTCCTCCCATT
GCCAAGATAGAAATGGACCCTTAGTTACTGCCACTTGCCATCTCACTCTGTGTTCTGGATAGAAATGGTGCTTGCTCTC
TGCTAGCTGTTAATTGACATCACTTCTGCCAGAACTCTCCATCATTATTGACAAGAATGTTCTCCCTTGTTAATTGCCC
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TTACTTTTTATATAGATGTGCTAATGGTAAGTAGTGATAGCTTTCCAGGATGTCCCACATTAACCCAATGCTTCACAAA
AATCTCTCAGACTGTGCCCATAAAACTCCAAAATCTATGGTCAACTAGTGGGAAAAGAATGGATAATTTATTTAAC
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TTAATGAGAAGAGTTTTTAAATGGAAGGCTGGGAGTGCTCAATATTCAGCAGTATAAGATTTTCTTTTAGCATAGAGGC
AACTAGAGTAATACATAAAGTGCATATTTTCATGAGAACTTTGCTTATAAGCTGGACTTCCCTAGAAGTATTTGAGACA
CAAGGGCGAGTCAACTAATAGTATCTACAGTGTTTTTGCAACCATTTAATGAGAGTAAGTCTGGATCAGTAGTTGCT
GATGTATGAAATCACATGAAGAGTTTTTTAAAATGCCGATGCCTTGATCCTCCCCTAGAAATACTGATTTTATTTGTCT
AGGCAGGGTAGTGATGATCAAACTTTACACTGAAGCAGCATCTTCTCACAAATTTGGTAAAAGTATAAAGCCTCAAGCC
CTATCCTGCTTCATGGAGCCTGGGTCTTTGTGTGCTGGATTAGCTCTCCTGGTGATTCTGATAACATCAAAGTTTGGAA
TCACTGCTCTAGGTTCAACATCAGACATTTTTTTTCAAGCTCCCCCAGGTGATATTCCCTAGGTACAGCCAAGACTGGG
AACTGCTGATTAACATGATATTTAGGATACTTCCCAGCCTGGCAGGAATAATAAAAATTGCTACCTTTATTAAACATTC
CTTTGCATATGGGAGACAGGGATGGTAAATAATTTAGCTAAAGTAACATGGGTAGGAAGTGGTAGATTGGAACTCAAGC
TGTAACCTCAAAGATCACACAAGAAACTATTACTATCAATAACATTTTGGAATTATAAGTTAAATTAAAAACTCTACAA
GTTGAAACATATTAAATGATTTTCTTACATTTTAAAATGTTCCTGACTTGCAATTACATAGTAAAAACAAAACAAAGA
ATTTTTAAAAATCAGTGGGAAATATATAAAAGATAAAGTTTTCATGAGTAAAAAGGAAGGAGCAAATTGGTGGTGAAAA
TCAGGTTGGATTTGAATTATTCCAATTTAATCTGGAAAAAAATTATAAGTCACTTGTACTGTTAGTRTATGAGAAATTA

Fig. 6.155

GAATAAGAGTTTCGGATAGAGGTATTTTGCCACAGTTATATTGAGGCGAAAGGTGGCAAGCATTTCAGGGGAAAGAAGA
AATTTGTGTACTTCTTTAAAATGGTTTTGGATGTTAATAATGCAATGAATTAAAAGAAAAAGGCAGTCTATACTGCAGA
ACACTTCCATTTCTCTCCTTTTGTGTTTGGGAAAATACTGGCTTAGTGCCCTCCTAGGCATGGTAAATACTTTGACCAC
TGCCACCAGTCACACTTGTGTCTGCAAAAGGGGCAAAAAGAGTGCCTTTGTAAAGTATGGTTTAATCCTACACAGTGGA
GAGTGGTGCTTAGGAGATTGCCTTGTTTCTCTTAAGACACAACCTTTCTCAGATTTTGTGTATAGTCCACATATGAGCA
GAGGGCTCATATTAAACTGATGGAGGAAAGGTATATTTCCAACCATAAATAAATAAATAGCATGAAGAGATGATGAAGG
CCTTCTCCTGCCACTTGCACATTTCGTGGACTGTTCTTGCTGATAAACAAAGTGAGCACTTATTTTCATTGGCATTATT
TTCCCAGTGGCATCTAGACTGTGTGGAGAGTGTTGAATTTTCAGCAGTCTAGAGAGTTTGAGACATGGTTCCTGATTCT
GGTACTCTAGCATCCATTACATGATATGCTTGAAATGTACATATGAAAATATGTTAAGACTGAGTGTGTGGGAAGAATA ·
GAATAATTACACAGCCAACAAGTTGTTGTGAGTCCTAAATATATTATCGTTCAAATAATGGATGGTACGTGGTAACTTC
CACAAAGAAAAATTCTAGAATTATTTTAACAGTAAGCAAATTGCATTTCATCTTTAAGTAATATGGTCAAATAAAAAAG
GTACAGGGAAAAAAGTGTCTATATATTGCCCTGAAATCCTCTTGGCTTCTTTAAAAAACATTTGACACTGCAGGAAAAT
GCTAATTAAAGGAAGACAAAAGTTGAATTTGGATTCTAGTGCCTCATAGGACTCTAATTTCTGTGAATATTGATACAAC
ATGTTTTTAAAACACTTTAGTAATAGAGCTGTGTTCTGCTGGAAGTGGCAGAAAGGCAAATTGCAGGCAGGCACTGAAG
ATAGAGACTACCGAAGATAATCAGAGGTTTGTAATTGAAAAGGTGCCTTAACCTTAACTCTGGCCAGCGGGCTCAGCCA
TGGCTCTGCAACTAAGGACGACTCGCCTTGATTTCCAGCGAGGACCACTCCCGAGGCCAAGTTGGAGGAAGATCTTCAA
GAGGAAACATTGGGCATTCTCCCTGCTGTGGGAAAGAGCCACACAATGTTTTATCCTATGTCAGGGAAAGAGACTGAAT
TAATCTTACTATTGGATCTTCACCCAGATCCAATTTTTCAGCGACGCGCATAGACAATATTCCAGGCAACTTTGCCTGG
TCACATTCCTTATCTTTGGAAGCACCAGCATGGGGCTCATCGTCAACAAGCTCTGAGAACCAGCCAGGAATCGCCAAAC
TCCATTTCTCTAAGAGCACTGAGGCAAGCGGAGGTGAAGAGGAAGGCTCCGGGGCAGTGGGGAGCAGTGTGGAGGAGGG
AGGCGCGGGCACGGCGAGGGGAAGGATCAAGAGGACAGGTCTGACTCCTGACTGGCTGGAGTGGTTTTGGTGAAAGTCA
CAGCTCGGGCGTGCCAGCCTGGAGCTGTCCAACTTTTCAGCAGCTCCGGGATCAGGGTTCCGGTGCCCTGGAGGCGGCT
ACCACTGCCGCCGCCGCCGTTGCTGCTGCTTCTGCAGCCCGAGTTGCTGACAATCCCTGCTCTCGCCGCCGGCGCCCAA
AGGAAGGGAAGAAGAAAGGGAGGAAGAAGGACCAACCTCTGGCGAAACCGGGCACCGCGCACCCTAGTCTTGGTGACTT
GGGGAGCCCGGGAGCGTGTCTCTGCCATAGCCTCGGTGGAAGGAGCCCTGCCGCGTTCTGTGACCCCTCCCGCTGGCAG
GGCCCCCTCTCGGTAGCCCTGAGGCTCTGGCGCCTTCAAGTGAGAAGCTAAGCACCAGCCTCTGCTGGGCTGCAGAAGC
GGCGGCGGCGGCAGCAGCAGCAGCAGCATCAGGAAGGCGCTCGGGCCAGCGCGGTGAACCCGGGCTGGGCAGCAGGTCG
CGGAGCCGCGAGCCAGGATGGAGGCAGAGGGCAGCAGCGCGCCGGCCCGGGCGGGCAGCGGAGAGGGCAGCGACAGCGC
CGGCGGGGCCACGCTCAAAGCCCCCAAGCATCTCTGGAGGCACGAGCAGCACCACCAGTACCCGCTCCGGCAGCCCCAG
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AGCCGCCGCCGCCGCCCCCCTGCCGCCGCCCCCGCCGCCGCCCGGGGCTGCCCGCGGCCGCTACGCCTCGAGCGGGGC ·
CACCGGCCGCGTCCGGCATCGCGGCTACTCGGACACCGAGCGCTACCTGTACTGTCGCGCCATGGACCGCACCTCCTAC
GCGGTGGAGACCGGCCACCGGCCCGGCCTGAAGAAATCCAGGATGTCCTGGCCCTCCTCGTTCCAGGGACTCAGGCGGT
GAGTGGAGAGCGCCCCCTCCCCCATTCAGGCAAAGGGTCACCTCCCCTTTTCTCAAATACTCCATCTAAGTCGGCTTAT
CACCACCAATTCTAGACCCAGGGTAAAATGCTAGTCTCGGAAATTGGGGGAGGACAAACAGGGGTGTGCCTATCCTTTAT
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TGTGTGTGTGTGTGTGTGTGTGTGTGGTGCGCGCGCTTCCCAGTTATCTGTGCCACGCACCAGCCCTCTCCCCACCCAC
TTCCATACCACCCTGGCTAGTGAGACTAAACAGGCAAAATCAGTTTGCTCTGGGTGGAGAAGAAGAGAAGGTGAAGGTT
TTGCGGGATTTGACCAGCGAAAGCACCCAGCATCTGTCCACTCACCCTATTGGGAAGAGGGTCGGTGGGGCTGCTCTGA
CTGGGGAGGAGGGGGGAGTGAGAAAGCCTGGTCCCAGGATTGCAGCTAAAAGCCTAAGAACAACTCGCATTTCTCTTCG
TCAGGTGGAGAAGTAAATTGAATAGCAAAAGGGGAGAACACGTGGGTGACTTGGAGAGTTTGGAGCAAAATGTTCAGCA
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GGCAAGACGTAGAGATTTGATTATAGTGATTTCGCCTTAACGTAAGTGCTCCGGAAGACAGGGCAGGGAAGCCGCCTAT
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GTCAGCTCCAGATTCTTAACTCAGGCGTGGAGGTGGATGTGGGGCCCACGTTTGGTCCCTTTCCTGATAACCCAGGGAC
AGCTCCTTTCTTCCCTGTCCCAGGCCTTCCACGCCGTGAATCCCCTCCCCCACACAGGCACAGGAAAAAGATTTCAGGA
GCTGCTGATCCTTGGCACATCTAATAGTAAAGTAGAGGGGTCGTCATCTAACCTTAGATGTGGACAGGCATCGATGTAC
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GCCAAACTATCATAACCCTGATGTGTACACATCATTTCAGCTTGCATATATGCTCTTAGCCCTTTGCCTGGCTCACACC
CTTAGGTACCTTGTTGGAGATGTTCTTGTACCTGTTGGATGGGAAGAATAAGAATTGTAATTAATAACCTCAATTCAGA
TCAAAGACTGCAGACTTTCATAAATTAATATAAAAGTTTCATTTTTCAGCCAAGACTGCTAAGACCCTTTGTTTGAAGA
GGTGGATGTCCTTCTCTCTCCCCTTTGGTTGAGCACGACACTATGTAGGACCCCAATGATAGAATGAAGGCAAGCCTGA
TACTTTGTATATTTGACCTATTAATAGAAAAATACCGTGTGATGATGAGCCCTTAATAAACATTAAATAAGAACAAGAG
TTCTAGCTTGATCTGTGGGCTGATTGATTTTGTAGAGTTTCTTAATTGACTTCATTTTTTAATAAAAATAGAATATGCCT
GAGAGAGTGGAAGAAAGAAAAATAAGCTAATTGGAATAGAGGTATTGCATCATTGATTTGAATTTATTTTTTTGCTATGC·
TTTCTACATTGATTAATTGTTCTATTTGAAATTTTTAGTTGAATGGTTCACAGGCAAACTAAGATGTATAATATTTATA
TGTAGCTGCCACTGTGGCTCACCTGATATATCATTGTCATTCTATTTAAGGATCCTTAGACTTAAAATTCTTTACAATA

Fig. 6.156

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CTTGCATATTCCCCACATGCTCACACATTGCATGTCATGTTTTTCCTTAATAGAGTTGCTTTTGCAAATAAATACATCT
TTAAGGAGGACATGGATATTAGTTTCATTCTTTAAAGAGAACAGCAACAATACTTTTTTATTTTAAAGAGAACAGCAAC
AATGCTTTTAAATTATCAAAGAAATTTTACATTTATCAACTTATTTGAATCCTACAACAACACTGAGATGAGATGGTAT
TATCTCTATTTGATAGACAAGAATGCTGAGCCCCAGAAGATGCGAGCAATTTGTTCAGTATCACATAGACTGTGAGTGC
TAGAGCTAAGACTGAAACCCAAGTCTCCTGCCTCATCAAAGGTGGTGAGCCCACCTTAAATAAATGTGTGCAGAACCTG
GGCCTGTTGACAGCATCAAGAAATACATGAAACCAACGTGAAGTTTATATCGACTGATACTACAGGACATAAAGCCTGA
ATGAACTAAAAATGAGATATGGTTTAAATCCATTTTTAACAAAATGACATATATCACAAGCTTCTAGAAGTAATTAGAG
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TTGTAAAATGCATATAAATACTTATGAAAGAGTGTTCAGATAAATTAAAGCTAGTGAGAACATCTAACGTCTTTTTCAA
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TACCATCATCCAAATGGGGGGTTTAAATAGTCTATCAAGTTAATGTCTCTGAAAAAGCCTCATGGGTGGATGGATGAAT
GATTCCCTATGGATTATCAAGAAAGGTATATCTTTTATAAAGCTATTTCTAGCATGCACTGTAGCATTTCCAGATATTA
TCTTGGCTGAAATTTTGAGAATTTGTAACAGTTTGTGAAGCAATGGGAAAGAGGAATCTTGTTAATGAAAAAATGTAT
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AAATTACCAGAGAAATGAGTCTCTAAGTTACCAAGAGAACAAAATGAAATATGAAAAATGTTTAAAACACTCTTTAAAA
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ATGATTCCTTGATATTATAAAATATTCTGGATTATAGTGATACAAATATCCAGAAGGGGACATTTGATTTAGATACTTT
GTTTGATTCATTTATTTTTATCTATTTATATTTATTGTTTTTTTAGAGACTGGGTCTCGCTCTGTCACCCAGGTTGGAG
TACAGTGGCACAATCATAGCTCACTGTAGCCTTGAACACCTGTGCTCAAGTGATCCTCCTGCCTCAGACTCCCAAAGTG
CTGGGATTACTGTCATGAACCACCATGCCTGACTCAATTTAGGTAGAAGGAAAAGAGCTAAAACCTATAATCACACAAA
ATATAAATTCTGCGCATATTATATTTACTTGACATTAGCTTTTTTTTTTTTTTTTTTTTTTAGACAGAGTCTCGCTCTG
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CTTGGCCTCCCAAGTAGCTGGGACTACGGGCACGAGCCGCCACGCCTGACTAATTTTTTGTATTTTTAGTAGAGATGGA
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Fig. 6.157

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Fig. 6 : 158

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Fig. 6.159

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GAAAGAACCTTCATTTCCAAATTAGGAATAATTTCCTGCAAGGAAAGACTATGCTGTGTGTGTGCCTGTGTGCTCTTGT
GTGTGTGTGTGTGTGTGTGTGTGTGTGTAACTCTTCTGTTGTGAATCCATCAGTGGTTTTGCATTGTTTACAGGATAATGC
TCAGAATCCATAACAAGGTCAGTAAACTCATCTATCATTTCCTAGGCATGTCTGTTATCTGATCTCTAGCCTTTCTTCT
CCCATCGTCGCCAAGTTTAGTTCTACTTGACTTCCTTCACTTCCTTCCCATTGACCTAGGGAGCACCTCTAAGACTGAA

Fig. 6.160

AGGGAAGTCGTGGGCTTGGTGGAGTTGAGGTGGGGAATCTATGAACAGATAAATCAGATAGAAGCATTGTTTGGTAGAA
AGAAGAGCTCATGAGTGGCAGTAGAGATTGAGTTAAAGAGTGGGATGAAAAAGAATCAAAAGGAAGTAGTACGATTTGG
TGACCAATTTGTTAGAAGGGATGAGGGGCAGTAAGTAGTCAGTGATGACCCCGAGGTTTCTAGCTGGACCTAGAATTGT
CCAACTAGTCCAAAAATGAAAAATTTGCCTTTAACTAAGATGAGTTTGACAAAAGATGAAGTAAATTGAGGGTGTAG
GTAATGAAAACAAGTTGGCTTTTTCTCCCTTGATGGCAAATTTCAGTGTGTATGGATGTATACATTTGTGTATTTGTGT
GTTTGTCAATACCCATTGATTTTTCTTAGGTTATATTCAAATACTGAAGTTGTACTAATTAAGCAACCGAAGTGTATGC
TTTCAGCATGGTACCTTTCACACAGCACCAAACATCATTATATTATTTTCTATTGTAGCATAACAAATCACAACAAAAT
TAGCATCTTAAAACAATACACATTTGTTACTTTACAGTTTCCATGGGTCAGGAGACTGCACTTGACTTAGCTGGGTTTT
CTGTTCAGGGTCTCAAAAGGCTTTAAGAAAGGTGTTGGCCAGGATTGGGGTCTCATTTGAGGTTCTGGCTCCTTTTTCC
ATATCAGGTGGCTGTTGGCAGAATCAATTTCTTAACCACTGTAAAATTCCTTGAAGCTTGTTTCTTCAAGGTCAGCAGG
AGAAAGAAACTCTGACTTCTGACTTCTAGGCCATTTTTTGGAGAGCTAATCACTTGCTTAGACCAGACCAACCCTGAAT
AACCTTTGATTAACTTAAAGTCAACTGATTAAGGATGCTAATTACATTTGAACAATCCTTTAACTTTGCCATATTCCAC
TGGTTAAAAGAAAATTACAGATGTTGACCATCTGGGAGGAGATAGTGTAAGGGCCTGAGCTATTGGAGATCATCTTAGA
ATTCTGCCCACCACAATCGTGTTCTATGTTTATGCAGGTATATGTGTGAGTGTGTATTTATGTGTGTAGTTAATAACTT
AAAAAATGAATTACATGTATCCCAAAACAAGCGGCAACTGCACATCCCATGCCTTCTTACTTGGATTAGTTTTTCCTGA
AGTTACTCCAGGGTCCTGTCTTCCCATTGTTAGGTTTCCTTTCTGCTGTCCTGGCTTCACCTTTCGTAGCCAAGAAAGC
ACTAAATTTGGCTCTGAAATGTACATTTCAGTACAATCTCCCTGTCTTGGCAGCAGTGGTGAGGCTTTAGCAAATCGTT
TGTGATCCCAAATGAGCTTCAGCAGTTTGGAGTGAGGCCATGGCCCACATGTTTGATGCCACCAGCCTGATTTTTGTAA
TGAAAACTATATCAATAAGGTAAGTAGTCCCTTCTTAGGCATGCATTCTTTTCCAATTTTATGTAGTGGTCAGTCATTC
TTACAGTGATACAAATAAATATTTATGCTTTCATGTCTTTTAAGCTTTTAGCAACGTTAAAAGAAAAGGAGTCTGTAAT
GAATGAAATTGTCCCATTGAACTTATTTTTTCAGCTTTTGAGGATATATCGAGTGTACTTCTTAAAACTGAACATGTGC
ATTTGTTACATTTATATATGTTTCCACATATCACTTTGTAAAAGAATTAGAGAGAGCTTATGAAATAGAATTTAAGTTG
ATTTGGTATGAGCAAAATATATTGTTGGAATGAAGCAAAGGAAAGAAAGCATAAGAGCCATCATAGTTAATTCTGTTTA
ACTTGTTTTAACTCTATCAAGGTTGGGCCAATGTGGCAATTTATTAAATAATTTGCTCTCATTAATGCAAAAGAAGAAA
TGTTCCTTAGGGAAAAACATGTTGTCTTGGGTACAAAATTCCAGCAATGTTTTTTACCACATGAGACTTTATGGAAAAT
TCCAGATAACAGACCTTGCCCTAATGGTATGTGGGCAACAAATCCAGAAGTATCTATCATAGCATTCTTTCTTATAACA
AATTTTATTAGAAGCCAAGGCTAGAATGTTGAAGCTGGACTCCGGGCAGGTGATTCAAATGCCATACTATTACTTTCCT
AGCATGGACAGTTCTGGTTATTAACTCACTCTTACATAAAACTTTTAGAACCAAAGGATTGGAGGGATGCTGACATTCC
TTAGATATCTTAGGTAATAATCCTGAAAATTCACTTTTCCTGAAGTTTTTGATAGCAGATAGTAAGAAAATTTCACTTT
AAAACTCACTTTGAGGACCTGAAATGTTATATTCCACTTTGCTGATTGAGGTCAAGGACTATTGTTTGAACCTCAAACA
AGCAGGTGGTGAGGTTCACTTTCAACTGGTAATTACGAGAAAACGAACCATTATGCTAGATGCAAGGCCACCTCATCTT
GCATCCGGTAAACATGCCAACAAAAACACAAACAAGTGTCTGTAATACCTTTCAACAGCTCCCTGTTGCTCTCATTATA
AATATGGAAATCCTTACCATGGCATTCAGGAATCTGCATGATCTGATGCATGTGTATATTGACAGCACATCTTGTATCA
TTCGTGACATCACTCTCTATTATTTGGCTGATTTTGACCTAATTCAGCACTTGGAAACCACCATACTCACTCCTGCCTT
GGAGTTTTTATGCATACTGTTTCCTCTACACTGAATAATACCTCCAAACCCTACCGTCACTGCCTATTAACCCCCTACT
TCTCCTGTTTCTCAGTTCAAATCTCCCTTTTTCTGATTATGTGTCTCTGATTCTCCAAATCTTGCCAGTTGGCCCTGTT
AGGGACTCTCAGAGCTTACTGTAGTTTTATTTCATCCATAGCAGCTTATGAGATTTTTTTCATTAATGTCTATTAGCCA
GATCGTCAGCTCCATGAAGGCAGGTTGCAGGCTTGTTTTTCTGACCACTCTATCATCAACCCAGAGCACAATAAATGAA
CATAAAGTGAATTCAATAAAAATGTGCTGAAAGGATAAACTACTGTTATTTACTACATTAATTACAACTTTTGTTAGCC
CCTTACAAAAGATGCTTTCTTAGATGCTGCATTTCCCATTCTACAGAGGTTGAATAATATGACTATGATAGTTTTAGAG
GAGATGGGAAATAGTTTGGTATTTCTTAAATTAAAATATGAATCTGTTAGAGCTAGAATTTTATTTTCTGAAAGATAAT
CTTGTTTAGCCAGTGTGAGAAACTACATTACACAAAGAACATTTTGCTAGTATTATTTCGCAGGAGAACTAAACTTGGT
AAACTGTCGTTCCTAGAAGATTGTTTTTATCAGGCACCGTTGCCTTCTTTGAGCTTTATGAACTCATGTTTTAGGACAG
TTAGACATTACTGATGGAGTTAGAGAATACTAGAAAGTGAACTTCAGCTAAAGAAAGTGATCTTTTTTCTCTAATGGCA
ATTCAGTTGCAAAGTTCTATTTTTATTCTAAGGGGCTCATAGAGGGTGGTCCCCAGGATTCTCTTAGGGGTCTGTGAGA
CCATACATATTTTCATAATAACACCAACATGTCATTTGTAATTTTCACTGTACATTTTCTCAGCAGAGTTCTCCAGAAG
CTATACAATGTGATGCATATTATTTCATAACAGATTGAATACGGAAGCAGACATGAGAACCTAGATGTCTTCCATTAGG
TGGCACAAATAAAAAACATTGTCACTCTTCTCACAGTTTTTTGGAAAATAGTTATTTTTACCGAAAATAAATTTATTAT
ATTTTTTGAAAATGAATTAGTAAATAAATATTTATAATTGTCTCAGTTTTAAGATGGCAAATATTCCACATAAACAAGA
AATCTGTGAGTCTTCAATAATTTTTAAGACTATAAAGAGATTCTGATACCCAGATATTTGAGAATCACTTCTCCGAGCC
ATTTTATTGACACAATTTTACTTGACTTTGCAACCTGACCGTTTTAGATACCTTTTCTTTCCAGTCTTTTCTAAAAGAT
CAATTGATTAATTGGGTTGACTCGATGATACAAGCACACGATCTTCAGTATCAAAAGATACTCATGACCAGTAAACCCC
TCTTTAGTTCTCAATTATCCAATTCCCTTTCCTGGAGGCAACTGCTACTCTTGTATTTCCTAATGGAGATCTTTTATGT
GTTTACTCAAATGCTAAGACATAATATATCATATTCTGCTTCCTGCTTATCTTCCCTAATGATATAGCAAGGAGATTGA
TTCCTAACTCTGCATGCAAATCTGCCATAGTGCTTTTAGCAATTGCAGTATCGTCCATGATCTGGATGAGACATAATTT
CACCAGACTCCTGTTGGAGTCTGTTGGATTGTTTCCCATCCTTTGTCACTACCTACAGTGTAGTGATGACTATTCTTTT
ACTTATTTGTTCATGTAAAGTAAATATATCTAGAATTAATATTTGGAGGTGGAATTCCCAAGTCAAAGGAAGGAAAT
ACATATTTTTTAAAAGGATTTTAGTAGATTGTTCTGAAAAAAAATTACACCAAACTTACCCTCACATGACTATTTTTGCT
TTTTCTCAGTATACTTTTTAATAGATTGCATTATAAAATTTTAATATTTACCATTTAAATAAGTGAAAGCAATGTCTAA
TTGCAGTTTTAATTTTATTTTTATTAAGGAAGTTAATCTTTTTTTTTTAGCTGAAGTCGAAAAATATGTTCATCTCTTT

Fig. 6.161

TTCATTGAAGCTCATTAGTTTCCAAAAATGTGTCCTCATTTCATACAAAGTATCTTTGAACCATTGCCAGGTCATAGAA
GTGACTCTTGAAGATCTTCTTCTCTGGGATCAAGGGTCACATCTCGTTCTCCTGGCTTCATACCCTTCTCTCTCTACAC
ATCTCAATTAAGTAAGCTTCCTTTCTTATCCTCTGAAATTATAATCATCTTTAGGCTCCCAGATATAGGTGACCTGTGC·
CATCTAGTCTGACTTCCAGTTTGCAAATTATCTTCAAAAAGTGGAAACAGCTTTTACTTTCTACTTTATAAATTCATAC
GTGCTCAGGAGGACTTTTATTAAGATTGGGACATATTGCTTAGTTAGTCTCTAGGGTGGAATCATAATTAATGAAAGAA
CTCTGTCTGATGGAAGGCTTAGTCTAACAAATCATCCTAAAACTTCATTAGACATTGTGTAATCCCCATGGACACTGTT
GAAGAGACACTTGATTAGGCAGATCGTGACAACTTCAGCTTTGCCCATCATACATCCTCCAGAGACTCCTCAAACTCAA
GACAGACTTTCTACAGGAAGGAATGGCTGTTTCTATTTCAGAATATTACTGATACCAGAGCTTTGCTGCATCTTCATGT
ACTTTCCTTTATTTTTATTTTTATTTTTTTACAGACAAAATCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCATCAT
CATAGTTCACTGTCACCTCAAACTCCTGGGCTCAAGTGATCCTCCTGCCCCGGCCTTCCGGAGTGCTAGGATTACAGGA
GTGAGCCACCACACCCAGTCTTCATGTACTTTCTTATGTAAATTTATTTTGTTTGAGATTTTCTTTGTGATGGAATAAG
CAATTCCTTCCTTAACTCATTTCCCGAGACATTTTTGGAATTTGCAATATATATGAAAAAGCACTTATTCTCAGTGATG
GAAACACCATTATTTCTTTTACTAGAATGTGATCTTCTGGTTTTAATATTTATGTCTCTGTGCCAAGGTGAAAATATTG
TAGAAATGAAAGTATAATGAGAGAGAATCCAGATAATAAGATTTTCAATAAACAAAAAAAGAAGTATGTATAGGAGTCC
TGTCTGCTGCAAATTTTAAGAATGGTTTTCTGTCAACATACAGTTGTCATTGCTTACTGAAAACTTCTATAAAAAACAA
GACACAAATGATTGAGAAGATAGTAGAGACTGAAACTAGAACTGTTGATTTAATAAGCTTTCTTACTCATATACTTAAT
CCACAGTAAATTATTAGCAAATTACATTTTCATAGTATTTCAGAATTAAAAGATCATAGTCAGGGCTTAAAGGAATCCA
GTTGTTTTAACAGTGCTGGAGGCAAAGCGTTCTAGCAGCAATCACCTGTCAGAATGACTTAGGTTGGATTGTTTGCACC
ACACACTTTACTATAGTTACATGTCTTTCATGTCCCTTTGTATCTCTGACTCAGTTTCCTCATCAGTGGTAATAGCAGA
ACTTACATTTTAGTGGGAGGATTAAAAATAATGTACATGAAATCAAATATATAAGTCAGCACTCAATAAATAATAGTTTG
TCATCATTATTACTATAGTAAATGACCACTATCTGAAATGGGATATAAAAAGGAAAGTGAAATTACTAAATAAATATGA
GCGTACAAAGACCTGACAATTTAGATACAATATACTCACTCTGTCTCAAAATAGTGTCTTCTGAAGCTTTAGTCAGAAT
ATTATGGTGACATTTCTGCTAGATTTGTCATTGAGTTGCTGGGTTTGAGGAAGAACCTAGGCTACACATTTCTCTTGGC
TCTACAAAAGGCTGTGGCAGTGGGTCCCTGAGTAAACCACCAGAAGAAACCTAAGGGGCACCTCTGTTTTTCAGTTAAT
CAGTTTTAGCTCAACTGGGATTTAATCCTGAAAATCTAAATTACATTTACAGACTTTAAGTTATTGTGAATATTTACAC
TACATGGGAGAATTACCAAAATATATTCGTTACTCATACAGTTTTCGAAAAACAGGTGAGACATCTTCCAGTTAAATTC
ATCTTCCTTTTATGTTTAATCTATTGAAGAATTCTAAACATTGTTTTGCACCAAATTGCTCCCTTAAGTTTTAAGAGCC
ACCTAGTTTGGGCATCAGATGTTCTCCTTTATTTCTGTAAAAATCTTGCAAATTCACTCCCAGAAAGAAATGTAGAGAA
TACTAGGCTATTTCACAGAAAAGGCTTGCTGCCCTTTCCTGATAACAAGGTAGTTATTATTCTTGGCTGAGCCTGTCCC
AGAAAGAGTCTTAGGTGACCTGGTGTGGGAATTGCTAAATCTCAGGCTACTCACTGAGACTGTCTGCTGCTGTGCTGGG
CACTGCAGTCCTCCAGAGCAGGCCTGTCAGCATCCTACCGTGCTCTGAGTAGGTCCACTGGGGAACCTGGTGGAGTGAC
ATCATGTATCAGCCTCTAGCAGCAACTCCTCTCTGTAGCCCCATGTCTTTCCTGTGGTACAAAGGAACAAGTGCTACAG
GGCATGTCTGTAATCGTTATCCCAAGGGCACGCTCCACAGGCATCTAAGGGTGAAAGGTACTGCCAGTCTGTTGGGTTT
GTTATTTCCATAGAGCTACACAGGAAATAACACCACCAAAAATAACACATTCAAACTCAGAGGGCAATCTTCCCTAACT
ATTCATAGGCACACGTCAGGCATTCTATACATATACCCAGCTCTTTGCTAAGCATAGTGAAATGCCCTTTTACATTGCA
ATTAATTATTAGCCAACATTGAATAATTATTGGTGAGAGGGTAAAGGGCAAGTGAAATAAAAATAGAGCTGGTTTATTT
TTAGGAAGACACTATTTTAATGTGTTGATTAATCAGACAGGTGTTTAAAAGCATTTGTTAGAGTCAATTCACAGAAAAT
CTCTTTTACATGCAGGTTACAGCCAAAGAAAGAAATAATAGCCAACACATTTACGATTTCAATTGCAAAAATTGTCATA
TTTTTGAACTTGTGTGGGTATTTGAAAATATTAGCTCCTACTAGGTCCAGTTAAAGCTTTTAATTCTATAAGGTTTCAG
ACTACCAGCTGACCACTGCTCAGCATCCCCTGGACTCCAAGGGTTTCATCTAAGACATCTAAGGAGAATGTCTACCCGC
ACATCGCACTAATGCCCCATGACTGCACTGCTTGAACCATGAGGTTATTGAACAGAAAGCAAATCCTTTTCTGAAGAGCC
TCCAAGATGTGGATATTTCAGTTAATTTCAGCTCCCTGCCAGCTCAGAAGAATGATGCTGTGCTGTGTGCTGTTCCCAT
GAATACTACACGCAGGGCACTGCTCAGTGACTCAGCCTTCCAGGGAGCCAGTCAGGGTTTTGAAGCTGCATCGTCCCTT
TCATCCTTGAAGTTCTTTTGGATTTCATCAATGGCATGGAGGGATATTTTTAAAACAATGGAGATTTTTCAGGACTGGC
AAAAGGGGCTCCCCTCGTCACAGTGCCAAAACCATCACAAACATAAGTTATGTTAAAAAAAAATCCTAAACTAAAAAATC
TGGTACTTAGGGAACTAAAAGACATCTCATGTTTGCTATCATTTCCATCAGAGCTCAGGTCAATGGACAGAGATCAATA
CCAAAACAAACATGCATACTTAGAGCATAAATTCAGATAAATGCTGGAGAATTAACATGTAGATAGAAGTACCATCATG
CCTAAAACAAAAACTCAGTCCAATGGTTGTTTCAGTGAACTGACTAGCCTTCATAGAGAAAAGTTTATTCTTTTCAAAC
TGAAGTTAAAAGATATTCGGTGCTTCATTCGAAATTTTCTATTTCATGATTTTTGAAGTAGTGATTTAGAACTCTTTAG
GACTATAGAAATCATTTTTCTTCTAAAATGTTGTCTTAGTCCTAAATTAGAAAAAAAAATAGTAAGAAATTAACAAAA
CAAAAGTTAATAGTATTATTCACATATATAAATAATGGGCCATCATGGTATCTGATTTTGATAAAAGGAAAATATACT
CTGGGATTATTTTTCCAAATTCTGGCACTCTATTTATGAGTACCTAGACAGACACTAGAGTCTCATGGAATTTAGTATT
AGAAATGCTACTTTGGAGTACATTTGATGTCATTCAAGTTAAAAAATTAAGGAAGTAGATTTTCAAAATAGGTAGCATA
AAATGTAAAATTATTGAATGTTGGAGCAAGAAGATCATCTAATGCCCTAGCAGTTCTTAATGTTGCTTGGGTCATGGAT
CCCTTAAGAACACGATAAGAGTTTACCTTCTTCCTCCCTAGAAAATATACTGCTTTTTCTTTTATAATTAAAACAATAA
TATGAAAGTTAATCTTAGTCCAGAAGTCCTAATAGCCCAAGAATAGAAATGTCAAATTCATCTCATATCATTAGTTTGT
AATTTTCCGTTGCCCTTTTAATTCCAATAACACAGAAGCTGTAAAACTGCTTGTCATCTGACTTTTTATTTGTCATTAC
CCAATTGAGCTTCTTATATTACAGATAAGGAAATTGAGGCACAGAGATATTAAGAAACTTTTCCGCAGGAAAAAAAATC
TGCTAGTTATTGAGCTGGGATTCAAATTCAGGTAGCTGATTCTAGTGTGCATGTGCTAACCACAGCACATACTGTGGCT
AACCATGCCTACACTCATGCTCAAAACTACGCTGTGATAGGTCTTATTAGCATCCCCATTTTACAGACGTGGAGATTGA

Fig. 6.162

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GGTGTAGAGTGGTTAAGTGACCTGGCAAAGGTGGCAAAACTAGCATCACAGTCAGCCAGTCTGGTTCCAGAGGTAGGAA
CTAAACCAACACACTGCCCTTCACATGCCTGTGTGTGAGTTCGCACACCCACACAATACATGAATTTGTACATATGTAT
CTTAGAGGTCAGGGTAAGCTGAGGATACGCATGACAAATGGGATTAGATATGACTTTTTCCTTCTTTCTTTCTTAGTTT
TCTAATTATTTTGTTTTAAGCAAGCATTATTTTGGAATAAAAATTATAAATATTATTTTTAAAAAGCAAACAGGTTGAT
AACTTAAAATGTGTTAGCTGGTGAAACGTCCAGCCTTATGGAGTAGGCCCCTGAGGTATAGAAATGGTTTTGATGGCAT
AGGATGTAGCCTTGGGAATGTCCTGGAAGAGTAGGAGCGGCCAGTTAGGCATTAACACTCAGGAGTAAGGAGACTGCAT
TTGGGATGCTCAGCTGATTGGAGGGTGGTGTTGAGTGGTCCCCTGGGCAGTGAGAAGAGAGGCCAATAGCACTGGCACA
GGAGGACAAGCAAGTTGTTCTAAGTAAACTCTCAAATGAACTGAGAGATAAAAACTCTAAATTTGGACTGCTTCACAAT
TTGCCTAAGGCTGGCCCTACTCAGGCCTTTGCCAGCTGTTGTTTTCTTTTAAGCCTCTGATCTGCAGGAAAACAGTCCT
GATTTCACAAAGCTTTAACAGAATTTTTATAAACGCAGATTGGGGCTCCATATCCACAAAGTTTTCCATCCTTTATTT
TGAGAATCTGCATATTTAACAATGATCCTCCCCAAGGAACTGCAATGCAAATGTCCAAATACAGTCCTTGGTAATATGT
GTTTTCACAGGGTGAAGTTTTTGTCCAACACTGTGAGATGAGAGCTGGGGGAAAAAAAATGAACATTAACCATAGAACA
GGAATGCAAATTTTCTGAAAAGTAGAGCGCTACTCCTCTCCTCTCTTTTTCTCCATATAATTGAAGAGACACTCAAATT
GATTGTTTTCCCATTGTTTCGAATGGTTGCTCCATGTAATTACTGAACTGAACTGGTAGTTTGGGGGGAATAGGGGAAA
TTCAGAGAATGTTGTGTAGAAGTAGAAGTCTACCTATGTCAATGACCTATTTTAGCATTTTTCTCTATTAACTGGCTAA
CAATTCGCTTGGAAACTCCTCCAGCTGAGGCTTTGTTAGGCTTTGCTGAAAATAAATTAGGTGACTCATTAAATTGTTG
CTGGAGTTAAAAAAAATTAGGCTTATTGATTCTTAAATTTCTGCTAAAAATGTTGCTAAATTAAATATAGGTTATTGTC
TTTATCAAAACAAATAACCCACAGCTTCTGTATTGCTTTATCTGTATTCAAAAGTTTGGGCCGGGCGCAGTGGCTCATG
CCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACCAGAGGTCAGGAGTTCGAAACCAGCCTGGCCAACAT
GGCGAAACTCCATCTCTAGTAAAAATACAAAAAAAAAAAAAAAAAATTATCTAGGTGTGGTGTTCGGGTGCCTGTAATCC
CAGCCACTTGGGAGGCTGAGTCAGGAGAATCGCTTGAACCCGGGAGGCAGAGGTTGCAGTGAGCCAAGGTCGTACCATT
GCACTCCAGCCTGGGCAACAGAGCGAGACTCCATCTAAAAAAATAAAAAATAAAAATAATTAAAAAAAAAAAGTTCGAA
CAACAAGGTTATGTTAGCATTTATCAGAAACTAATGATAATTTATGTGGTATTAAGTAGGGTAGTATCTTGAATGAGAA
AGAATACTGTAGTTTGGATTCTTTGGAGGACCTTCGGTTTATATTTTATTTGCAATTATGTTTATGCTTATTATTTCTG
CTTACTTTGTGACTAAAAGCCAGTTAAATGTGATTCTCAGATTTCATTTTCAGTGTTTTTATTAGAATGTGGTCTTTTA
GGATTTAAACCTATTTTCATCTTGCAAGTATATATTTTAAAAGTGATTCATTTAAATATTCTGCTCAGCAATTAGCACA
AATGTTGTCACTAAATTATTACAATAGTAGCTATTAACTTCAATAAGTAAAATAACAGTTCCCTATTGTATAATATATT
TAGAAAAAAATCACTTAGTGGGGTGCATGTATGTGGAACAAGGTGAAGACTACCTATCTCATCACAGAATTCCTCAATT
AAGAAGAAAGTGCTCTTAATTACATCCAATGGCATCATTTTCATGAAGATAATCAATAACAAGTGACTTATTTCAGTGT
CTCAAATTTTCAAGTTTATGCATCCATCTACTTCACAGCATCCATCTCCATGGGCCCCAGGCTGATTCTTGTTATCCTT
GCTCAACCTATCCATTCTCACAGTAAAAAGCCATGAGAGCCATTATTTTTTAGGAAATGTGACCCATTATCCCCAAATC
ACTGGGAAAATCACCTTACTCGACGGGTCCTTATAGCTATCCCTAATATCTTGTTGATTTCTCCTTTAACCTTTTTACT
ATGCCAATGAAAATGGAGCAATGTATAACTCAATAAACTCCAATTCAACTGTCAAATATCCCTTTCTTCCCAAATTCTG
TTTAAGAGTCTGTGGGCCTCTTCCAACTACAATCCCTGCACACCCATCCTTAGCATTAGCCATTGTACTTTTAGAGGAC
CAATTTGTAAACTTGATCATATCAATCTTGAAATCTAGGAACAAAGAACCAAACTGATAAGCTCTTATATCCACACTCA
GGAGCTCATCTTCCCTGATTACCTTGGGCTCCAAGTACCACTTTCATGAGTGCCTCACTTGTGTAGAATCTCACCATGG
TACAGCTCATCACACCATTTTATTATCCAGCAGTGGAAATGTAAATTCATATCCTTTTAACACTCACAAAAGGAGTCAA
TTTCAGTCAATTTTTAGGAAATTTGGTGAAAGTTTAGTTGGTTATTATCCTGTTCTTCAAAAAGCACATCATTAGACAT
ACTTTTAAAAAACCAGAGAATAATCTTACCTTATAAAGACAAATGACACATGTTGCTATGAGTTTAGGGGGAGGGTTACT
AACCTTATTATCATGTGAACTGTTTGGAATTACCTTTGAACCCTCTATACATGGATTTCTGTCGGAGGCCTAAGAACTC
CTTGTCAGGAGAAGGAAATGGTAGAAATCAGATGAATGGTGAAGTATGACCATTAGAAACCACCCTCTATACACCTACA
CTGCCTATTTTTACATCAAACATAGCGAACTGTCCTTTAGGAAGCAGAAAAGGCAGAGCTGAGGAAATGAGAGGCACCT
CTCATGTCTTTAAGAAAACAACTAAGTGGCAATTTCTGGAAAATAGGTTATTGTTTGTCAGGTATTAGCCTGAAATTTT
GCTTGAATTGTTTCTCCCTAGGAAATGAAAGATGTTCACTTCTTAGTTGTTTTGGAAAAACAAATACTTACTAAAGATT
ATAATGGCTATCAATTTAAACAAACAGATGCTTTTAGTGTCTTTGTGAATAACACTAGTGAATTTGCAAGAATTATTGC
TTTACCAACAAAGCATAAATTCCCATGTTGCTTCAGTACTTGTGCAGTGTTTGTTCTGGAGCCTCTATTCAATATCAAC
CAGCGTATAGTAGTTCCTCCGTGAGAGTCTCTTGTAAAAACTTACATTCATTCTTGTTATTATTTTATCTGAGTGAATA
TTTGACAAAGACCAAAGAAATCCCCTTGAGACTGGTACCCATTTTCTCTAATTTGAAAGATATTGACTAATTTTGTTAG
ATCCCACCATGAAGGCAAAAGGAAAATATATTAGCTATCACTGTGGCTTAAAACAAGAAATTATTTATTATTTTTAACA
AATCTGAGGGGCAACTGGTGTTTGGTTGATCTATGTTGAACTTATGGATAGTTATGTGAGTGTCAGATAGAATCAGACA
TCTATGTGAGCTGGCGCATCTCCATTCCACATTCTCTCTCATCTTTCTTCTGGGACTGATGAGCTTGCCTGGGTGTGTT
CTTCTCGTGGAGATGGAAGAGGTGGAAGAAAACAAGCCCAACACAAAGCACATTTTCAAGTCTCTGTCATGACAGTTA
CTGACATCCCGTGAATGAGGGCAAAGACAAGCAGTGGGCAGGTCCTCCCACCCTTGATGGGAGGGCTCAGAATGAATA
CATAGATGCAAGGAGTAGGGATTTGGGGCCAGATGATACATCCTACCACAGAGAGGTAGGATACAGGGAAATTCTAGGC
CCTCCAGTCCCTTTGCTCCAAATAATCACCATAGTTGAGACTTGAACTATGAGAGCATCAAGTAGGAATGCCAGGTGAG
CTTCAGCTGCTGCCCAAGTGTCTAAGAACACTCATTCACCTCTCAGATACTCACATACCTATGAAATGCACCAATTTCA
TATCATGAGCCAAAGTAAAACTCAGAATCATTGAAATATTTGTCTTTGCATAGAAAGAGTCCCATATGGAAACAACCCA
GCCTACCTGCTTGACTTCCTGCCTGCCTGCATGCCTCCCTACTCCCTCCCTCCCTCGCTACTTCCTTCCTTCCTTCCTT
CCTTCATCTCTCCTTCCTTCCTTCCATTCTCCCTACTTCCTGACTGCCTATGTGCTTTCCTCCCTCCCCCCTTCCCTCC
CCCCTTCCTTCTTTCCTTCCTTCCTTCCTTCCCACCTTCCTTCCTTCTGCTCTCCCTCCTTTCCTCCATTTCTCCCTCT

Fig. 6.163

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CTCCCTTATATTTCTTCAATTCTTATCATTTGAGTATCTAGTTAATGAGTTCTCATTTGATGTTATAGATTTTTTTAGC
TCTTCCTCACCTGTATTCCTTGGAGTAAATTTTATGAATCTTAGAAACAGAGTCTGGCTGATAAATTTATTGGTGCATC
AAACTCATTGAGAAATGTCTTCCAGTTTCATCTTCCAAAATGTTACTAGTTCTAAAGGTAGTGGTTGATAGTTCACACA
AAAAAATCAATACTGATTCAGAAATAACTTGCTCATCAGGGAAATAAACCTGGAAGGTTTTAGTCATAATTTATTTATA
ATCCCTCCCTATGTGATATTCAGAGATGAAATTTGAGGTGAAAAAATTCAAGTATTCTTTTTCATATATTTTGAAAATA
TAAGAGTCTTTGATGTATTCTGGGAGCTAGCATCTTGAAAAGAGGAATAAAAAATGACTTATCTGGAGTTAGGAAGGTG
CTAGTCCATCACCCATAAACCAGTTAAAGAGATAAAGGTGATTTATCAGAAAGTACAACAAAAGTGATAACAATAGAAT
ATTATTCTCCATACCAAGCAAGTTACAGGTATCCCCTGCTCTGGACAAATGCGTGATGTGTAAACCCAGATTGACCAAG
GGCATAAGGGAGATGTAGATCTGTAGCTTTAGCACACATGACCAAGGTGGTGCACTTGGTGTAGGCTCTCGGCTGATTG
CTGACTTTGCACACTTGCGGGGCATTTCATGAATCTAAATTCGGGAATAAGATTTAGAAGCTGGCAGATGACGAAGAGA
TTGTTTGGGCAACCAGGACTCTTGTATGTGACATAATCAATGCTGAAGTTAGTTCATCATCCCATTCCTTGTATTTCCA
AATCTGTGATGCTTAGGGCCTTATCTAGTGCCTTTTACCAAGTGGGTGGGTTGTAGAAAAAAAAGGACTAATACTCATT
TTCTTTGAAATATAAGCTTTTGAAAGAATATTTTAAAAAGAGGACTAACATTTTAGCTTTCATGTAAAAGTTTGAAAAA
ATGCAATTTCAGTACTTGGAAATGAGCATTTTAAGACTCCTTGTTGACTTCCCTTGTATTTTAATGCATTTCTAGAGAG
ATGTCTGCTTCTGCATTGCTTCCCCATGATTTACTTCAGTTGAAAGTTCAGCCAGATCCATTATTTTCTTTCTTTGACA
CATTATGCAAATTAAATGCAAAATTCAGTGATGAGAGGAAGAGGTCTCAGAGCATTGAGCAGATGCCGTGTCGGTAATA
GAGTAAGGCAATTACAAAATTACTTGCAGCCACTGTGACTGTGTATTTTCCCGTATTCTGAAAAGAAATCTGTCATGTG
CTCATCACTACGAGATTTATTTTTCCATTGATGTGTGGGAGATTTATGCATTTAACTGTCGTACACATTGATGAGAGAA
ACATGCACCTACAGAAATAATTTTTTATAGATTAGTGAGATATTTAATTCTGACTTTCTTTTCCACTAAAATGATCCTT
TGTAATAGTCTTCTCTTCGCCTGTATTGTAAGTATGAACATCAGAATGGCTCAGTAAGCTGGAAGAGCAAAACCATGTC
TGTGTGTAGAATTCCAATGCCAAAAGAGAAATACCACTTATCTTCCACTTCTATAAATAAAGGCAATAGCAAAGTCATT
AACAAGAGCAAGGGGTGAATTCAATGATCTCTAAGATTTTTTTCCAGCTAAAAATGATATGATTCTTATCTATTACTAG
GAAATAGTGGTATTGAAGTAGAATTATGAGCTCTACATTCAGTCTACTTTTCACATCGGATTGTCATCTCATTTTTGGA
GGGTAATTCTCTTTAGATTCTCTAGTCCTAAGCTGTAATATGTCTTATAGTTGTCATATTTTAGTGAACAAACCAGAAA
AAAAGATTGCCTGCATCATATGTAATTTTTGTTCAATCCAAGGGCAATATCGTAGAATACTTGACTCATAGTTTAAAAT
GATCATTTTTATTGAGTTCAAATTAAGTCTTCTGTAGATATAATAATTATGTGAATCAAAAATATGTATTTGTGTGAAG
AAATGCTCTTTCTTTTCAGGCTTGCCTTCAAAAAAAGTTAGTCTCATACTGAATGGCAATAATTTCTTCTTCCTGCCTC
CTAAGAATACATTGAGGATATAAAATTATGAGACTAGAATGCTCTTATTTCAAAAACATTCACAGTAGGCATTGGCCTG
AGCAATAATTGTGAATGTTTCATATTTAGAGAATGGGTAGATTATTAAATATGAACTATGAAAATTTCTACCCTTCTGG
TTTTTCTGTGGGATATAATCCTCTGGTCTTAAAAATTAATTTTAGTAATGGATTTTCACAAGTTCCCTTGGAGAGCATG
CTTGGAACATTTTTGTGACATACACTCTTGAGGTTTTCCTTCTAAATTTCTTTTCATCACTCATTTTGACTTTCAGATT
TCTTAAATATTTGTTATTACGTGTATCTTTGTAAATAAAAGTGAGGCTTAAGAAGTTTGACTTTGTTTTAGGATGGAAC
CTTGTTAAAAGTACAAGCACACATGTGTTGACAGCAGCTAGAGGAAGCGTGATAGTGTGGAAAGAAACAGAAGTCCAA
GACCTAGGGGTACATCAAGTTCCATTATTTAATTGTCATCTTTGTCTTTGCTACTGAAAGTATGGTCCACAGACCATTT
GCATCAGCATTGCCAGGGAGCTGGTTAGAAGGGAGAATCTCAGGCCCCTTCTAGACTTACTGGATCAGAGCCCGCATTT
TGGCAACATTACCAGGAACTCATATACACACTCAAATTTGCCAGGCTCTGAACTCTATAATCTCCAGCATTCTGATTTC
TCCAAGTCCCTCCTTTCTCATCTTTGAAACAGAGTAATTTCTACCTCACAAGTCTAGTCGAGAATTAAATACAAACATG
TAAAGCTGCTGTGTTCGGTGCCTGGCATACATGGCTGTCCCCCATTCCTGCCAACACACACCTTCAAGCAAGACAACTT
GAGAGAGGCTGAGTGGGAGAGAGGGTGAATAAATGTTAATAACTCACATTAGAGTTGGCATTTTTTTTCTTTTTACTTG
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GAAATCATTAGGGAAAATACTGACATATTTGAGTACATATATGTTTTAAAATTTAATTTACTTGAAAAGGAATGAAGAT
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GATAACATGAAAAAATTAGTTTTACTACTCATAAAAGACATGCAAGTGAAAACAACCAAGATGCCATCTCCAGTCTATC
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CAAACTGTACCATAATGGGAACTATTCATAAATATGTAAATTATGTCCATATGATAGAATACTAGGCACCCATTAAATC
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GAGTAGTTAGCTCTAAAATATGGGGATTATGGATAAATTTTATATTCTTCACTTTTTTATTTCAAAATTTTTATAATTAG
CTTTAGGATTTTTATAACCAGAACAAATTACATTTAAGACTCCCTTCTAAACTTATTTGCTTATTTTCAATCTCAAATT
GTGAATTTGTATGGCCTCTATATTTCCAATCTAATTTTACAGACATTAAATTTCTCTTGAAATTCAGTGAAAAATTAGC
AGAGTCGAAGTTACACTTCTGTATGGCATTTAAATTCCTCCTCCCAGAATACAGCCACTGTTCTACAGTACAGAGGAGT
CCTTCATATCACGATTTTCATTGTGTCTAAGAGGCATGTGTTTCCACTTTGTCATTATTTGGTCTAAAAGGATTTTTCT

Fig. 6.164

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TCTATTTTGCTGCTGTTTTTGTACAAGACATATAAAGAAAGGTGTTAAGGGAGTGTTAAATATAATCAAGGTGTTAAGG
AGAAGAGCCCAGAGAGAGAACTCTTAATCTTTTCATCTGGTCCAGTTGTCAAAGTCTTTTGTCTTTAGCCATCACTTTT
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GATTAAGGTGGAAGCTGCAATGTCTTTTATGATAGAGCCTCAAAAGTCACACAATGTCATTCCCAACGTATCCTTTTTT
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CATGCAAAACATACTCCCTTTATTGTGGTTCCCAAGAGTCTCATTCTATTATGGCATCAGCTCGAAGTCCAAGATCTTA
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CTTCATAACATGGTTGCTGATTTACATTGGATGGAGAGATCAAAGAGGATGAGAGGAAAGCAGCAATGTGTTATAGGAC
CCAACTTCAAAAGTTACACATCATTGCTTCTGCCCTATTCTGTTGGGCAATCCTGATGCAATATAGGAGGCACCATGAA
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GAAAGAGATTTCTGGAATATTTCCATTCTCTGTCATGCCCACTGCCATAGTCTACTCAAGTTCTCATCTCCTATTGGAC
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TGAGCAGCCTTGTGTGCCTGGGTATTCCCTTCCATCTCTCACCCATGGAGTTCATATTCCTGTTGTCATGTCACCCACCT
CTGTCAACGAAATAGGTTCTGCCATTTCTCAAATTTATGGAGAATTATCCTGATGAGTTAAGGCAGAGGTTGAAAACT
TGCAGCCCTTACCCCGGTTACGGATTTTATTTTTAAAACCCAGTGTTTTTGAACACTTTACAGCTGATATTTCTATTCT
AATGGATGCATTATCTTCTTTTAAAAATACTTCCTATATTAGCCCTCTTAAGGGGTATGAAGTGGTGTCTCATTGTAGT
TTTGATGTGCTTTACTCACTCTTAATACCGTTATTATAGGTTATTTATTGTTAAAACTGTGATATATTTTCCTTTATTT
TCTACATATACATAGATAACATGCAGTTTGATAATCTGCATTTAATCGCATTAGAAAGGTATTTTGCTATGTCATTAAA
ATTTTTTTGTGAACATCATTTTTAGTGGCTGCAAAAAACTTACATAAAGACAGACATGTCCTAATATATGTGTGTGTATA
TTTTAACTAAATATTGGCACACCAAAAATAATGGATTTAATGCAACTAGCAATGATAATGCTCAAACAACAGGAGTGCT
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Fig. 6.1165

ATGAAGACAATGAAACAGGTGAGTTGTCAGAACACCTTCTGTCATTACATTAACTTTTTTAAGCACTAAATTCACTTGA
AATTACAATAAACAAGATAAGTACAAGCATTAGATAATTTGACCTATCAGATATCCCAAAGGCATAAACTATCACTAGA
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TATAATGCTCACCAATGGATTTAGAAATATCCCATTGTAATCATGAAGATCTCAATTATATGTTATGAAATAAGAAACA
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CATGTAGCCTTACCTGAACTGGTACCCTCCCCGTACACCTCACACTTAGCATTCTGCACAGCCAAAGACCCTGTCAGTT
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CCAACCTTGAGTTGACCTACTCCGCAGGTTCATGGGTGATTAGGTGTGAGATACAATGGGAATGAATATCTGAAAACCC
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CTCCTCACAGCGCCGAGTTGTATGAAAAGGCAGCTCAATTGTCTTTCCTTGAGCAGCCTTGTGTGCCTGGGTATTCCCT
TCCATCTCTCACCCATGGAGTTCATATTCCTGTTCTCATGTCACCACCTCTGTCAACGAAATAGGCTCTGCCATTTCTC
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TGTAATTCTAACTCATCAGTCCAGCAGTGCTGAAAATGCAGAATTTTGTCCTTATCAAAAGCCAATTAATGCTAACCTT
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CGTGGCCACTTACTTCAAGACCAGCCAGCAAGAGAATGTTCCTCTTCAGGAAGGGCCCAACTCCTCCTTATGGATGTTCTTCT
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CAGCAAAATCCCTCCACCTTCTCCATACATAATAACCTAATCATGGGAGTGACTGTTCATCCTGTTCGTGATTAGGCTC
ACATATAAGAGAAGGAGATCATATAGGACATGCATGTAGAGGATAGAATCTTGGGGGCCATCTTAAAAATTGTGCCTACC
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CAAGTAGCATGCAAGCAAGTAGGCTGAACTCTTGTCTGTCAATCTAGCTCCTTCCTGGATGGGGTATTTAATCAGCTCT
CCTTCCCAAGCACCCAGTGGACTTGAAGCTCACAGTTAGACAGAGATGGCTAGAGGTGCCAAGTGCTGTTTATCATAGG
TGACATCACCTGTGTGCTCAGAGTTATAAACATAGGCAGCTTGCCTACTGCCAAATCCATTACAACTTTCAGAGGTGTT

Fig. 6.166

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CACTTAGGAAGAGGAGGAAAGAGTTTTTTGAGAACCAGATGGGAACTTAGAAATAAGTAACATTGACAACCAAATCCTT
CAGACACATCTTCAAGTTTCAAGAGAGCAGTTAACAAAAAAGAAAAATGTATTTTTAGAAATTGTTTGGGAGGTGAAAG
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GGCCACTGAACAGACCATATTTCTAATTCATGGCAAGATGGCTAAAATAAAAATTCTTGAAATACGTATTTTAAAATTA
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AGCACCTATTCCTAGAAACCATTCCAACATATCACCTAGGCAAAGGAAACCCTTTTCTTACCTGGCTCCTACTTATCCC
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CACTTTGGAACTTGGGCTTCTCTGTTGTCCTGGGTGTCCCGTGTATTCCTCTGTCATAGCCCTCATCTCATTGAATTGT
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TAGCTACACATATAGCCTGACTGGAGCAGTCCAGTTTATAACCTCTCCTTGTAGTGGGCACTGTATTTCTATGGATGCA
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CACTGCTCACATGCATGAATATTACTTGCACAAAGAGAGAGTAGGTGGATGTGATGCCAGGAGCTATTAGAATGATT
CACATTACACTTCCACCATATGAAAAATAATGTACAGTCTAAAGCAACACTGCATCATATCATCGAGCAGCTTGGGAAA
GCCTAAATTACATATTTGAAGTTCAGTCAGTCATTGAAATTAGATAATCTGGATGGTCCTGAAAGTGTCTTTCTTGAGA
GCTTTCCTCCAAAAGCAAAATTGAATGGTAAGGAAAAAAATGAAGTACAACAAAAATGACAGCAAAAAACCTGAAAAAC
AAAAAACAAAAAACAAACAAACAAAAAACCCCAAAAACTGAGTAATATCAACCAGGCAGGAGTTGAAGGAGAGAAGCCC
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AGCAGCCACAGGCCTGGGGTTTTCCCCAGGCCTGTGGCATTCAGACATCAGAGCTGAGAACTCCAGTGACCACCAGGCT
GCATTTTAATGCTAAGCTGGGAGCATTGATACTCTCCAAGACAGCCTTGCAAGCTCCATCTTCCACTGACTCAACGTTC
AGTGGAACGTTCAGTGTGTTTCATCTGCTGTTCAGTCATGCAGGCAGCAGGGATCCTGAGGGCTCTCCTCCCCAATATG
GTACCAAGTTTTGATTCATCCTTTTCCTCTTCCCTATCAGCAGGTATTCTAGAAGACAGTTTTATGATGACATTCACAG
CTAGCATTAAAAACCAGATAAAAATAAAACAGGATGTCAATAAAGAACTAATGATGTGTGTCTGTGTAAATGTATAATAA
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Fig. 6.167

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TAATAAAAAGAATAGACATCTGTTTGTCAAGGTACCATTTAAGGCCTTGGGGCTTTAAATGAAACTGCTTTATAAATGC
ACCAACATATGTGACTGTTTGCCTACGTCTTTCATCCATGAAAATTGCCCTGTAGACAGTTGCCTTTGAGGTGAAAAGC
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ACAATTTAAGGGTCATGGAAAAAAAGTGTTAAACGAGTTGGTAATCTGACATTTCCTAAAAACTAGATTCAAAACCGAA
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TGTAGACATTTAGGGAAAAATCTCATAATTTATGTTAAACACTCAGTTGTCTTGGTGTTGATTGAAAGCAAATAATACG
TGCTTAACATCCTGCTAGTTGCTGAGGGAGATTCATTCATCATTTTAGAAAATGTTTCTGGGCATCAGTCATATAATAA
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TGCCTCTGTGGGCACCTACCCTGAGAAAGGTAGTCACCCTGCTCCATGCTCTGTTTCAAGTACATTTATTATTATTTAT
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Fig. 6.168

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TTATGTTTTTTTCAATGGAATGTGCATTAGAATGAGGCCATTAGTTCTTTGTGGTTAACCAAAATCTCAAGATTTCTTGT
AATGAGAGTAACTTTCTTTCTGGGATCCCTGACAAACCGGAAGAGAGTGCTGCTGAAATGTGGGAAAAACAGCTGTGT
TATAACAGGAGCTGCCARCCCCCCACACAGCTGGCTGCAGAGATAATTAATTGTGAAGAGAGTAAGGAAGTAATTCACA
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Fig. 6.169

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TAATTGTGTAAATGTTAAGTAATTTACATAATTGGGTATATATACAAATGGATTTCTTCCCTAAGCTATTTTTTTAAAT
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TCTCATTGTAGTGAGAATTTGAGCTGGGATGATAAGGCTCTAGTGAGGTGAGCAGAGAGAGGGCATTGCATGTAAGGGC
TCAGTGGATGCCAGAGGGGAGCTGGGCAATATCCAGGAGATTGTGAAGCATACAAAAGACTGGGACTTTCCCGCCAAAT
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Fig. 6.170

176/375

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TCATACTTACATTATTAAATAAGTACTTGTCGTCATCCAAGTTAATTAATTGATTTATTTAGATTTTTGAAAGCCTTTG
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CAAGGACTTTGTATATATATACCCAATGTCAAAATATCTCATTAATATAATTTTTAATATTGCCATTACACATCAAAGT
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ACATAGGGCAAATCCAAACCAAAACAATTCAGCAGTAACAATATTAAGATTAGACAAGGGGAAATGTCAAGTTTAAACA
CCAAAAAAAGGTAAAATCAGTGGTGTTAGGGCGTTAGCTGGTACCAGCTTGTAAGAGCCTATGGTTAACATATCTTCCT
AACTCCATGTTCAATAACATCATATTGAAATTGGCCACAGTGTGATTATTTACACCGTAGAAATTGGAAATGATACAAA
TCAGGGCTTTCTTCCTCCCCTCCTCTAGAGCCAATTGCTAACCATTTACTAGAACACCATGGGATAGAAATGATGAAGT
TAAAATTATTTGAAATGCACATGTGCTCAACAATATAGCAACTAAAACTATAAGACAAAAACTRTTAGAAATGTAAGGA
AACTTTATTTAAAACACATGATTATACTGGCATATTTTAGTTTATTTCTTCAGAATTGTACACATCCAAAAACTATTAA
GTAACAATATAAATAAATTAGATGTAATCCATAAACTTAGTAAATGAAATAGACAGTCTTTATTYATTCAATGTAAGTG
TGTAAATGGATGTCTCCACCTTAAAAATGAGATATTTTAAATAAGCCATAATTGATTCAAAATGGAGTTACCTTTTTTG
GCATCACTAACTTAGCGRGTAATCTTGTAATCTTCCTCTTAAAATTTGTTTTTTGTGAAATCCTAATTTTCTATTTCTTT
TTCTTTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGCTGTTGAGACAGAATCTTGCTCTGTCACTGAGGCT
GGAGTGCAGTGGCACGATCAATGCTCACTGCAATCTCCGCCTCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCAA
GTAGCTGGGACTACAGGTGCCCGCCACCACTCCCAGCTAGTTTTTGTTATTTTTAGTGGAGATGGGGGTTTCACCATGTT
GGCCAGGATTGTCTCAAACTCCTGATCTCAAGTGATCTGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGA
GCCAATGTGCCTGGCCCTAATTTTCATTTATTATACTTCCCTTACTATAGATTCAATACAAGGGAATGAAAGCTTAGAC
GTTCTTGGCATATTTTATGAACTCCTATAAACCCCAACCAGGTTGTGAGTAGTTATCGCTTACTGAGACCTTAAACACA
AACAATATTTTAATGTTCATTTATTATCCTGAATAAGATACATAGATATATATTGGGAGTTGAGCGCTACCATGTCAAG
AGGAGCAAGCCCATAGAATGATTTTTCTTTCATTTTTTTGCAAAACAACTGCAATGTCCCATTAAGACTTTTCCTGCAT
GTTCGTGTCAGATGAAGGAAAGTATTTTCCACTGATACCCCAGGTTGTTAGCTAGTCCCACGACTGCTCTTCAAGAAAC
ACAAGAGACCTATCTGAATGTGGGTAAAAGGATTTCATGTTGCTTTTTACTTAGAAACCCAGATTGTTTGTAATAAGCT
CTGTCTGATTCCTTCAACACTTAGCATCCAGGCAGTTTTCTTCCTCTAAACTTCAAAAAATAGGAGAGAATTGTAAGGA
AAATGATAAAGCATCTGAAGTTCAGCAAAAGTGAGCCTCATCTGAGCTGACTTGTCCTGATTTGGGGATAGCCTGAGG
AGAGTGTGTTCACGCACCTTGCAGAGTAGCCCTTAGCAGCCACTTGAATAAAAACGAATGAAAAGATAAACAACAGGAG
TGGGCAGAAGTTCGAAATGGAGGATGTGTGTGAAGAAATAATAACATTGTCTTGAAGATTTTAGAAAATGGGAGAGGCA
AGAAAAAGAAACATAGAGATGAATCCTGGAAAAGGTATTTAAATCTTGGTTGATTGTTCATAAAGCCCCCACCCATAGC
ATCTTCATCATCCCTGTGGGATGCAAATATTGTTGTTTTCATCTTACACACACGGACATTGTGTTTCTGACAGGCCAAG
GGGCTGTTCAAGGTCAAATGACTGTTGAAGGCAAAACCACTAGTATGCAGCAGTAGCAGAAAATGAATGCATGGCTTCT
```

Fig. 6.171

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GATGATAAATCCTATGGTCTTTTCAAAACGCCTCTGTTGTCTCTAGGGAAATTGCCTCAAATTAGAAATCAACACATTC
TACTGCAGTTCTAATTTGCACACGCTTGCCTGAAAACTTTCTAATTTCTGGTTCTTTTTTACCACCTCCTCTCCCACTT
AATTTCATAGCTACAGAGGGGAAAGATAGCTACTGTCCAAATAGTCTTGCTAAAGGACCTCATTTTCAAAATTCTTTTT
CCCCCTTCAAGTCTTCATTTGACTCACGGTGTAATCACATTAGTGAGGAAGATTTTGTACAGTCATACCTAGTGCCAAA
TATCAAGTTTTCCTCCAAAAAGCAAAATAAAATGATGGGCAGACCACCTGCTTTCCATAAAATTGTACCAAAATCAAGG
AGGACAACTCTACGTTATCACGTAGAAATAACATCAGCATTTATGAGTAATAGGTCTGTTTGATGGGCAATGCTGTGGT
GTGTAAAATTCTGATGACAACATGTTGAAAAAAATGTCTGGAAGAATGGGAGAAAAAAAGTGAAAGTCTATGGAAAGTA
GTAGATTTGGAGTCCTTTTGAAGAAAACATGCAAGAAGCTGCCAGATAACTGCTAGATAAGCAGCTATTGACCATTTAT
GAACTCAGTTTTACCAGGCGTTGAGAAGGCGAGAATACTCAAAATAAAACCTGCATAGATTCCACCCTTAGGAAACTTA
CAGTCTGGCAGATTCAAAACAATTTCACTTCACTTTAAGTAATTGTAAAATTGCCTCCATAAAGCATAGCCTGGATGA
AAACATTTTTCAATATTATTTACTCATTTTAATGCACTCAAATAAACTTTATACCAAGTAACTTCTTTAAAGATCTACC
AATATAAGGCACGTATAGATCAAAGTAGACAATGTCAGCCCATATAATCCCCTTCTCCAGGTCCATTTTGATTGCTTGT
GTCAACATTGGAGACCACAGTAAATTACTAATGGTCCTTAAAATTCCCCCCCTATTTATCTCTTTCTTTTCAATTTTTC
TCCTTCACTCCTGCTACTCTATTTCTTGTGTTTTTTTTTATCTACTTTTTTTTTTGCTCTTCCCCAGGGAAACTAGA
GGAAAATTCTTCATCCTGATAAGAGTTTTTGGCACCAGAAAGGATATTTTACCTGTAGTCTGACCTACATGGAGTGAGG
GAGCCTGAACATGTTTCCATGAGTGTTCTAGTTCAATGGGCAGAAAGATCCATCAGGAGAAAGCCTTTGTCACTGATGG
CTTTGAAATTGTTCAAATGACTTTGCAGTTCACAACACGTGAGCTTAATCATTGGTTTGGCTCTTCTGAGGAGCTGAGG
GAGACAAAGAAGCAAAGTTATTTTCCCAGAGGTAGTGAGGCCCAAGATGCTCAGAAAAGATTTAATTGAAAGATGCCAT
TGCTGAAATTTCTTTTATAATGTTCTGCCTGTGGCTTTCCAATAGTAATAGTAGTAGCAGTTGTTGTAATAATAGAGAT
AGTAGTTGTATTGATAGCAATAATAATAGCTACTATTTATTGAGCACTGACTGTGTTTCAGGCATGGGTCCATGCACTT
TACATATATTAACTCATTTAAACCTCCCAACAACCTAACAAGGTAAAGATGATTATTATCCCATTTCACAACTGAGCAA
ACTGGGACATGAGATTTAAGGAACGTGCCCAAGCTCACACAGCTAGGCGATCACCAATTATACATTTCCTCTCTGCAAG
AGAACAGTCTATTTTTCAAAAACATGCTGATAAAACAGCAATCCCATTTGCTTCTAAGGACAAACCCTGCCATGCCTGA
GTGTTGCCATTCTTAAACTCCAGGCCAGGGCTTGCCTTTGGATGCATGTGAGCTTCACTGGGCTCTCTGCTCAATGTCC
CTCCTCAGAGTGTCTCCCTAACCACCTCTCTTGATCTCTCTCCACCCCTTTATTCCACTTGGGTTTTCTTCAGCACACT
TAGGGCTACCTGACAGTGTTAGCAAGGCTACAAAGCAAAACACCAGATGGGGTGGCTTAAATAACAATCATTTATTTTC
TCACAGTTCTGGAGGCTGGAAGCTTGAGATCAGTGTGCCAGCTTGGTTCAGTGCTGGTTATGGGTCTCTTCTTGGCCTG
CAGACACAGACACCTTTTCACTATGTCCTCACATGGCCTTTCTGTGTGTGTGGGGGGGGGGGGGTGTGGGTGTGTGCGC
GCGCGCGCGTGCCTGCATGCCTGTGTAGGGAGAAAGAGAAAGCTCTTTGCCTCTTCTTATAAGGTCAGATTAGGACCCT
ACCCTTATGACCACATTTAAACTTATTTACTGACTAAAAGCCCTATCTTCAGATATAGTGACATTGAGAGTTCAACATA
TGAACATATGAGCTGATAGGAATATATGAATTGATGGGAACATATCAACACTTCAACATATGAATTGGGGTGAGGGACG
CAATACAGTCCATAGCGGTGACCGAGCATATATTTAATAGGTCATTAATGTGTTTACTATGTGTCTTTCCCACTCCTCC
CGGTATTAGTAATCTAAATACCAGTAAGGATTTGAGGTTCTTCTTTGTTGTATTCCTAATACCTAAGACACTGTCCCAC
ACATGGTAGATGTTCAATACATATTTGTTGGATAAATAAAAAATACAGAGCTCCCTCTTCTCCCCTACATGTTGGAAAA
TGTGTGTGATCTAAATGAGGGAGAGGGAGAACCATCTCATCTAATCTTCCAAACTTCCTGAGCCACCTTTAGCTACTGA
GCACATTCACGTTTCCGTCAGCTGGGAATTTAGGTGCCCTGCCTATCATCCTCTGGAGCCCATCCCAGGAGGGGGCAGA
AGGAGGTGGAGCAGCACACTAGTGTTCCCAGAGTGGGGAGAGCAGATGGAGAGGAGTTCATGGGAACGATGATTTACCC
CTGCTCACTTACCCCTGTGAGAGGACACTGCCCTCCACGAATCAATGCTGGCTCCTCCTCCAGGAACCAGGCTTCTGCA
TCTCACTTGCCATGCTGTGGATCTAGGAACAAATTTGCATTTGGAAATTCATTTTAAAGTGTGCATGCTGAGGTTCTGG
TGACATGCAGGGTAACTTCTCCCACCCACGATATCTCTTGACTCAGGCCTTCATGTAGGAGGGGAGGAGTGTTTGGCAG
CAAAACTGGGTATTTCTTAGGAAGGAAATCCTTCTAAGCTTTATGGAAATCCTAGGGTGTTGTCCCTACCTTTCTGAGT
GTGGAGCAGACTATCTGTGTACATAGCGGTAGTGAGCGGGTGTAATATTGGAGAATGGCTTAGGTAACAGCCAAAATATA.
CATTGTATATCCCCAAAAAGACGACCAAAGACTCACAGGGCCATGCTGCTATCATTAGATATAATAGGCAWAGCCTTTC
ATTGATATGTAAATGTTAGTATTTTTGGTAAGTGCCTTATTTTATCTTCTGGATAATATAAGATCAAAGTACCCATGAGG
GCAGGATCCTTCTCTCATTCATTTTTTTTCCCAAGAGCATAGCACAAAGTAGGAAGTACTTGTTGAGTGAATGAATGAT
CCTAAATATGAAAGGATGGCATTTTATCGCCATTTTCCAGATGAGAAAAAAACGAGGGAGCTTATCAGGTTTATATATA
GTGAGTGACAAACTTCAGAATTAAACCAAAATCTAGTGATTCCTATAACTTACAGGTTATTAAGGAGTCCACCTGAATG
TAAGTCCAACAAGACAGGTGTTTATTTTGTTTACATACATTCCAAGTACCTAAGACAATGCCTAACATATATAAAATAC
TTCATAAACATCTTCATGTGTGAATAGAATTTTCAAAGTTCATCTCAATATATGCCTCATGTGACACTTCCAACCCTTC
ACTGCCAGGTCTTTCAGTCTTTATTTGAATAGGTTCAGTAAGAAAGAATTCACTCGTGCTTTAGATATGTATGGCTTTT
CCACATTGTTGTCAGTTCTAAATCCCGAAAGTTATTTTTGTATGCTTGGAATACTTCACAATATTCACAATTTTTACAA
TAAAATAATTTCAGGTCTTCTTGATGAAAAATGTCGATCAGGACAGGGCTGAGGATAATCACAAGGCTTGAAATTAAAG
AAGTCTCCTTAGGCTGAAATGAATTTCTAGTTGTAAAACCAAATATGAATCTATGTATTTGTGTTCCTCAGACCACTTT
TCCAGCAGGTCCTTGGCTGTATTTTGTATGCATTTGTGAAATGCTTTGTTGAAATTCAGTTTCAGCCAGGTCTGTAGCA
TTCTCCTGGCCCCTGGTCTGATAGTTGTACCAGGAACACTAGCTAACAATTGCATGGCACTAGTCTCAGCTGGATTTGT
TCTAACTCTTTTATATGTATTAACTCAATCCCTACAACCACCCATTTCATTACTATGCCCACTTGAGAACTRAAAACA
CTGAGGAAGAGCGAAGTTAAGTAACTTGCAGAGGTCTCAGAGCTAGGAAGTAAGACAGCCAACTCGGAACCCAGCAGAC
TAGCTCTGGAGCCTACCCACCTACCCTCCACACCGTACCTGTGGTCCATCCTCACCAACCAGGCCTGCTGCCCTGAGCA
TAACTTCACCCTCTTGCGTTCTAAAACTATCTGCTGATTAAGTGAGTTCTGAAATGTTTTCAGGGACCAATACTAAAAT
CAACTATGAAATAGTTTCAGAGATTGACCTTTCCTCCTTTTGGAATGGATAAGATTTTCCCAACCGAGGTCTCCCATCA

Fig. 6.172

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GCTCTCCTGTTCCCCTGGACTGTGGCACATAGGAGGGCCAGGGACTTGCGCCTATTATTTCATTTCTTTTGTTATCCTT
CATTTCTAGATCTCTTCTCTACCACAATTATCTCTCATGTTGACAGTTTCCCCACAGATGGGATGTCTATTTCCTTGAT
AATACAGCATTATTATGCTAAAATCTCTCATTTGTGTTATTAGCCAGACTCTGTGCAAAAACGTGTGTATATCTGAGAC
TCTGTGCTGTTCTTAGCCACCTTCTTGGTCCCTTCTCATGTAAATTACTAGGGCACTTCTTCAATATTATTATTATCAT
GCCCCCTTACCACCACCACAAATCTTCCATCATAACCCATTTTTTTTTCCTCCTCCTTACCACATTTTCAGCTTTGAA
CTCTTATAATCAGATCAGGAATTACATTTCTGAACAAATGCAGGCTTTGCAGCATTGTGAAGTGCAGCTGGTCCCCAGC
AGAGAGCCCTAAGCCCCTGCCTGAAGCCAAACCCCCTTTTGTGGCGAGAGGTCTGGATTTTATTTGTTGTTTTTATCTT
TGGTGAACTGTCAACTGGAAGCAGAGATGCGAACACCAGTTATGTCCTCCCCTGCAAGGTTCATGACCAATACTTTATA
GTTTCTGGATATGCTTCCTAGGTTTCTTCTGTTGGTGTCATTTGCCTGCATGTGACTCACTGGCAGGTGGTGATTTCAT
CATATTCTAGACATGTGTCTTAGGAAGCTGGCCCCTATCCTGGCTGGCTGGACACATATCGAAGTTCCTTAGATCTACC
ATTGTCACTTTCATATCCATTGTTAAATACTATAGATAGCATGCAGGGGTCAGCCAAATTGTTCTGTAAAAGGCTCAAG
CATAAATATTTTAAGTTTTGTGGGACAGACAGTCTCTGTCGCAACTACTTGACTGATGCAGCATGCAAGCAGCCACAGA
CAATAAGTAAACAAATGGGAATGGTTGTGTCCCAATAAAGCTTTATTTATAAAAACTGTCTTTTTTTATAAATAAAGGA
GCCCATCGTTTGCCGCCCCCTAGTGCCAGGAAGGAACAAGGGGAAAATAAGGAAGAGACCCAGAGGAAAAAAAGTGTCA
CCAACCATATCTCTAACTCATATTTATTTACTTATTTTTCTAAGCGCAATCGCTAAATTATCTCGTCTTCCTAAGGCGT
ATGAATCTCTTACATTAACTTAGGGACAGAATATAGAGTTTTATGTTATCTTCTGTGAGTTCTTTTTCCATTCTGTCAT
GTTTCAGACTTTCAGAGGTAATTTTTAAGTATTTCAGCTGTGCCTTAGATACATTAAGGGACCTATAGTGCCTCCCTGA
GGCCAAGATGATGGTTGCAATCATAAATAGGTTATTTCTGAGTTGAGACTGGTAAGAACAGATTATCCTGCCCAGACAG
TGATGTGCCAAGCATTGGCAACTTTGAAAAATTTGCAATTTGATTTTATAGGAGAGTTTCCTTAACAGGCCTGAGTTTT
TTTCCCATTGCTTTTGTGAATACAGTATTTTCCCCTGCTAGACTCTTAGTCAAATGTTCTTGCCATTATAAGAAAAAAG
GAAAACTGAAAAACTTGAAAATAATTTTATTGGCTTAGGAATTATTTTCATGTTTGTCTGCTAATGGCAAATAAATCTA
CCTTATTGAATCATACGGATTTTAATTCCCCGGGGGAAAGGTAACCAATGACAGGCATATGTGTGTGTGTGTGTGTG
TGTGTGTGTACAAGTGTATGCTTGTGAAAATTGAACAGCAAAAGAAATTAGGTGGAGAGGAAAACATTAAAGCTGG
TACTGGTGGGTAATCATTATATATAGTATATATACACATATGCCTTCTCCAGTTTTATGGAGGCAGTCAGTGCCTCAAA
GACGTGTAATAAAGAGACAGCAACAATTATTGGTGGCATTCATGTAGGAGAGGCTTGAGCCAATGTAAACTTGACTTGG
TTAGTAATCTTTGCCAAAACTCCCTGATTGTYGTAAGGGAGTTGTGAACCATTAGGTTTGCTTAACCAGAACAGCAAGT
AAGCATCCAAACAGATTGTCCTTGGACCATAAGCAAATGCCCAGAAAATAGCCCCCTGCATAGGAKATTAAGTACTTAG
AAACAAATGAGAAAAAATATTACAGCAAGTCTTCCAGGTATAGAAGGGATAAACAACCCTATTGGTATCAGAATTTAGG
AATATTATTATGTCTCCCACTTTAAATGAAATACAGCAGCCTGACTTGGCAAAATTTGGGGAACGGTTCCCCTTCTTTG
CAGCCAGGTTCGGTGCTTGCCCTCTGGCATCCCTTCAATTGTGTATATTACTGGCAGAGACAGCTGTTTGAGCTGCTAA
TAAGATTGCAAAATAATATCAGCTTGTGCTTCAGGTTGAAGATAAGAGATAACATTGCATTGGCTGTAGGAATGGCTTT
CTTATAAACTGGATTTAGTTTTATCTCACTTGTCTCACTTGTTACTTTTTTATTTATTTACTTTTTTTTTTTTGAGATG
GAGTCTCACTTTGTCACCTGGGCTGGAGTACAGTGACACGATCTTGGCTCACTGCAACGTCCGCCTCCCAGGTTCAAGC
CATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCATGCGCCACCACGCCTGGCTAATTTCTGTATTTTTAG
TAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAGGTGATCCGTCTGCCTCGGCCTCCCA
AAGTGCTGGGATTTCAGATTACAGGTGCCATGACGCCTGGCCCCCACTTGATACATTTGAGGGTCTCATAAGGTCTTGAA
ATTGAGCCTGTGAATTTATAAACAGGGCTACAACCATCCTGCAGATGCAACTTTTTGGCATGCCAGAATCAGTGGCACC
TGAAGAGCATCTCCTTGAAAGCGGTAGTAGATAAAAGGAGATGCCTTTCAGGTTTCAGACGTGGACCTCAGATTCACCT
CCAAGACTAGAGTTATCACAGTGCACAGGATCATCCAAGAACAGACATGCAGAGGGAGGAAAGGCCATTGTAAGGCTCA
GGAGAACATAGTAGAGCCTAAAATGAGAACAAAATGGTACTATCAGAAAAGATGGCAGTGGTTGGGACATAAGAGAGG
GTAGGTTCACAGGTTTGTGGGACCAGGACTCAGTCACTTTCCTCGCGCTAGGCTCAACCCTCACGATGGGGAAAGTAAT
GTACTTCTGGGCTTAAAATTCTTCACAGTCAACTGGTAGAGATATGAGGGAATTTATTGCTAAGTAGTAGGGAAAGTGT
TTTCACAAATAACATACAGGAAATTCCCATATCATACAAAGGAGGTTGTATTATCACCACGTTTTTACATATGAGAAAA
TAGAGTCTTAGAAAAGTTATGTACCTTGCCTAGGAGCATGTGCCTAGATAGTGGCAGCTCCAAGATTCAAACCTAAAAC
TCCAGAGTCTGAAACTCACACAGTTTCTTCTCTGTTCTGAGGCTTCATGCAGCTGGACAGGAGGTTAGCCTGAGACAAG
AGGAGGATCATTCTCGAAGGCAGAGAGGCTGGGGACATGACTGCTTTCTGGAAACCTGAGCTCATGGAGAGAGGCTGAG
AGTCAGGAAAGTAGGACATGAAATCATTTAATGAGAGTGAAGACCAGCCAGGTCAGGGAGTTTGAAAAGAGAGTTTTGA
AATATCCATTGTAGCTAATATGGGAGAGCATTCTTTGAGAGTGATTAAAATGGCGACTGAGGACACAGCTAAAGTGAGA
AAGAATAAATCTGTGGCAGACTTGCATATTTTTGGTATGTGCATCTCTTTCCGAAATCAATTGAACAGAGGTGGGAAAA
GTAGCTTGGTGGATAATGAGGTAGAGTGGAAAGTTGAAAAGACAGAGCTTAGGAGTCTTTCTGATTGGTCTAAAATTCC
CCAGGGAAAATCATGTTTCTTTTTATGAATATAGTCCAGGTCTTAGGTCTGTCCCACGGCACAAAGTTTTCAGGACATT
CTGGACAAATTCACACATTTCCCTGGATGTCAGTCAATTCCCTTTGCCTCTGTGCTATCACTTTCCTTCTCTCTGCTTT
CTCCTTGAGTTACCTGTCCCAGCTCTTCACTCCACATTCTGCAGCCTCCGTTTAGCTCCTTTATACCTTTGTCCAGATT
CTTCCTAACTTATTATACTGCCTCCTCATGTCAACTTCCATCCCATCTGCATTTGGGAAAAGAAGCCCACATGATAAGT
GAGTCCATCTGCTAAATGTATGCATCTTAGAGCATTTGTTCAAGATCAATAAAGATACAAATTATTTTGATTTTTCAGC
TGTTGCCCAAATCCACAAGAGTACACAAATGAAAATGCACTGATTTTTAAAAAGTACAAATAGCCATTAAAGTTTGTAT
TGTTTTATTCTTTAAATAAGCCGGAAAAATGGGAATACGTAGGAACGAGGGAGCTAGCAAAATAGGCGGGGCTTCTGCG
TTTCAGGTGGTCTGAGACTGCAGTGACCCTGAGGCTGGTGGACCTGGAAGGAGCCAGGGAGAGATGGTGGATCCCAGGG
GTGGGAGCAAATGCATGGTCCAAGGTTCTGAATGGCAGAGCTAGACCAAAGGACTAACCTGCTAACCTTGACCAAGGAG
ATGGCCCAGAGGTTTTCTATTTCTACTGCTCCATCTTTTCATTATAAGTTCCCAGTAGAAACGAGTCATCATTTAAAAT
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Fig. 6.173

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ATCGGTGCAGCACTTAACACATAAGGAAAAATCAATAACATTCATTTACTTACAGTACCCAGAGAAGAAATAAATTCAA
ATACGTAAAAATGGGCATGAACCATYCTGTTCCATATCCCACTTTAGGACTGTCAGCAACTGTATACATTGCTGAACGT
CATTGCTCTTGTACATAATGAATAATTTTCTGTAACCCTGTGAAGGCCGACTGATTTTTACGGAAAGACAGCTTTGTGT
TAGGCGGCCCGCCTTCCCCACGGAATCGGGTTTTCCCACGCCACGTTTTGATGTTTCTGAGAAGTGTGCGCCATCTGCT
GGCCGCTGAGAGGATTGACGAGCAGCCATAAGGAGCACCGTGTTTCTTGAGCATGACTTAACCAGGCAATGGAATTACA
ATTATCTTTGGGTTTCTAAAACATAATAGACATTTCAGGATTCACGTGACTTATGAGAAGTCGCTTAATTGCCTTTCAA
GCAGTATACATTTTTTATTCAATATGTGTATTATTCTTTGTAATAATAAACRATGCAATAAAGCAATCGAGGGGTTCCC
ACATGCTCTCTAGGCAGAGATGGACCCCGGGCCCTAGATGAAAGGTTAATAGTTTGGAGTGAGCACTAACTCTGGTYCT
CTGACTCTGAATCTAAGTCAGGAGTAGAATAGAGCTGTACAAAGAAGACTGCTTGATGGAATTGAATTTTGTCCCTTCT
TCAATGGGGGAAAATAAAGTACAGTTTTCATCAATAGATTAATGACTAAACTTGGACCTTGATGCCAAATCCAACTTGA
GCTCCGCCTGCACAGTCTGGAGATGTACATAAGAGACACATGCTCAGCCTCTTAGCACATCGTTATAATCCAGGCAGGC
AATACTATATCCTAAAATTACTCCTCTTTGCTGAAATTGAGAAAATAGGAATTACCCAGGGGTAAATTTGGTACATAAA
TGTACCAAATGGTATGATTTATTCTAGTACTGTCTTCTTTTTCTTGATTTTCTTCTTTATTGGGAAATTTGTATTTTGT
AGTTCCTTCGACAGTTTAAAAATTAAACTAGAGGGTAAGATTTAAGTTTTCTCACAACTAACAAATGATTTTGATTTTA
TTGCCCAAAGCCCTTTATATCTCACTTTCGATGGGTCTAGTCCCTTTGGCTTAATTTAGATGTGATTTTTCCTTAATAA
TTTTGAAAATGGTGGTGCTCTATACCAACTAGCTAGAATAGGAATCACATTGACAGTATTTAATGGATAGAAGCATCTC
AAAGATCTTTGCTTAATGAGGGCAAATCATTAGCAATGTCCAACTCCCTATGTTAGAGGCGCCAACTAAGGCACGGTAC
TTAAATTTAAAGCACAACTCTTCGACTTCCATAAAGTACATATATTACATTATATTTTTAAATTACGGGGTAGTGACTC
GATATGTCACTGGAATGTTTTGAATAGTGCCCCCGGCCCCCCTGCCAAAAAAAAGAATGCAAGAACACTGTCCTAACCA
AGAAGGCCTGGGAGTTTTAACTAATTCAGCCTTTCAGCCTCCACTTAAAATTCTGGAAGACAGTAGTGTTGGTGCTAGC
TGTCCTTGGCTGCAAGTTGTCTTTACAGAAGAACTTGGGGTACATTTTGGTGTGAGGCCACTCTTGCAAGCAGCATTTG
CAGGCATTAAGAGAATGCACACAGTTCAATAAGCTGGGGTTATATTCATAATCAGTCTTTGTTTAATGCTGTAAAAATA
CTAAAGGAATGGCCAAAATCTCTCGGTATCTGGGGAAAAGGGTTCTTTGAAACTTTTGATGTGTGAGCAGAATAATGGA
AACTTATCTGTTCCCCATGCTTTTAACACACACACAAACACACACACACACACACAAACGTCATAGATCAAGATGTA
ACAGGTTGGAATGGGGCCTAGGCTTGGGAATTTTGTGACTCCCCAGGTGATCTCAATGTACTGCTGGTTTATTAGCAGG
CTTTGCCCAAACAAATACTCTTTCTCACCTACCAGGAGAAATCAAAGAGCTCTGGGTTAAACACTTGTATGTTAAAACC
AAAATGGTGGGCATTGCAGAGTAGAGGAATTAGGAGAAGAAAATAGATATTGGGTCAAAAATTGGCCTCAGGAACCAGG
AAGTAAGAATGGCCAATCTTAAAAGAGAAAGTTCTGTTGAAGAGGGGAGCATTATCTGAAGTTGGAATGACTATGGAGGA
CAATGACAGCTGTCCCACAGGATGTCACTGGGCTGAGGAAATCAGACTGGAAGCCACAAGCCCATGGGGGCTCAGGAA
GCCTGTTTCCTGAGCAGAACAGAGCTGGGTTTGGCACATGCCTAGTGTTCCAGTGAAATCTGTCATTTTTCTGCTTCCA
CTTTTTTACAAATGAGTTATTCAACGCTACTTTGTTGACACATGGACTCAGCATTTAAAAAATGACAGTGGAGATAAGGG
TCTAAGGTAGTGATAGGCAAATGAATGATGGGCATCCATCATCTGAAGAGCTTCTTAAAATTCAGATTTCCCAACCCCA
CCACAGACGTCTGTCTCCGTAGGTCTTGGGTAGGGCTCAGAGCAGGCTGCTTCTGAAATTTTGAGGTTGTGAGGTAAGA
ATACAGGTGGGAGCCTGCATACCACTTGTCTAAATATTTAAAAGTTGTAAATCAGCCTAATGAACTGTGAAGGAAGCTC
TGGCCTACTTCCTTGACAACTTAAGCCTATACAGAGACCTGGAAGATCAAGTTCAAATGCAGAACCTGAATGTTTCGGT
TCTATCTGCTCCCTCAGTGTTAAAGGTCTGTCCTTTTTCCTTGACAAATATGCTTTCATAATTGTCTGGAAGGCCGGAT
TCCAATTCAGCAATTCCAATCCCTCAGTGTTGAGGGAAAGGGCCACCCGCTCTGCTCTTCTCTTCCCATCGGCTCTGT
CTGGAACCACGAAGCACCTCTGTGTGTGTGGTGGGGACAAGCCAGCCCAGGTGCCTGCGTTTTGGCCCAGTACCTCCTAC
CCTCATACTACATATGTAGCCACCCCCAGGCATAGGGTTGTGCACACTGGTGACATGTCTGCCCTCTAGAAGAAGCATG
GGGGAAATGGGACCCCACAGGCCCTGTTAGCTGATACGGGCCATGAGCTCCCAGGTCACGGTCTAAAAGTACATTGGTT
TGGGGCTCTGCGTGACCATATTCCAAGGATCCTGCAAAGGAAGAGGCAGGACTGGAGAAGGGAAAGAGTGGGCCTTCTA
AGGCTCCCAGGGCAGGACCTCTTTTTGTCTGGTCTAAGAGGGGTATTGAACCCAAGTGGCTTAGATGCTGAATCCCTGG
GCTTAGAACCCAATGCCCTGGAGCATTGATCTCACAGTGCTGGCCAGAAAGGGGCTCGTTGGTTGCTACTAGGTCATTA
TCACTCCCAGGGCACCTGGGCAGTCAATGAAACTGAGCTCAGAAAGTCCTGCCTTTATGATGTCCCTTCCACTTCCAT
AACTTTCTCCATAAAATAAAACCAAGAAAAATAATTTTTCTCTTGATYTCAAATCGTATTTAAAGGAAAATAGAAATTT
TATTTTTAAAGAAATTGCATGTTTTCATTGTCTATATATTGTTTTGAAATATGTACACGTTGTGTAATGGCTAAATTGA
GCTAATTAAATGTATAACCTCACATGCTTATCATTTTTGTGGTGAAAACACTTAAAATCCACTCTCTTAACAATTTTCA
AAAATATTTGAAAAAATATAGTTATTAACTGTAGTCCTGTAACTATTTCCTATTAATTATAGGGAAGTAGAAATTTTAA
TAGTCATCTTTCTCATGCTTTTCTTGACTTTTAGATTCAAGAAATAATAAACTTGAATAAAAGAGATTAATTTCACAGT
AATGCAATATTTCTGTAAAATTTCACACCTTGTTGACTGTCAATCAGCTGAGAACTTTACACCTCATTAAAAATCCATT
AGAACAATGGCTGTTCCATTAGCCCTTCAGTTTATGCCTTAAAACATACTTGTCTAAAARCAACATTGTTTTTGGCAGG
CTGCTCCTTTTGATAAGTGGGGACTTGCTCTGGTATTAACTGTTTCCAGGTCTCCAGAAAAAGGCTCAGGGTATGTCTA
GGGACATCAGTGACAACAGTGAGGTAGAGCAAGTCAATACTGTGCCACCTCTGCGCTAGCCAGAGAACCTCTGCTCCAA
GGTGAGTTGGTTCCCCCTTTCATTAAGGTCCTCAGGCCCCAGTAAAATCCAGATATGGCTTTGGAGAGGAACGCTGTCT
GAGTGAAGCTCCCTCAGTTTCATAACCAGCTTAGAGCTTCTCAGCTCTGACCTGCCTGTTAGCATGGCTGGGGAGCCCA
GTGGTTTATTGAACTGGCTAATAACAAAGATTCTGAGATAACGAAACAGAAACAGGTAGGTTTTGATGAAAAGGAAGG
AGATAAGGAGGATAAGAGGGGTAGTAGGGAGGAATAGTGGGAGAGGGGCAAAGAAGCATTAAATCAAGATTTGGAGAAT
GGCTGGAAACAGTGGCAGAGACTCAATAGGAGAGTGACCCTGACAGACGGGGAGGTGGCAAAAGTGCTTGCAGGCACAG
GCCACCCAACAGTTATTTCRGGGACTGTTCACAATCTCATCTACTTCACAGTTTTGCCTTGTCCTAACTCAGGTCTTAT
TAGAGCCAGAATAAATTGCCTTGCATCGTCAGAAACTGACCATTCATTCCTGTGGTCTTCTTTGAGATTTTTAGAATCC
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Fig. 6(172)

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CAAGGACTAAATATCCCTATCCACTTGCCTTTGTTCACTGTATTGGATGATGTGCCATTGCCTGTCTCCAGCATTCACT
GAGAGCAGTACCCCAACATCCAACACATCTTTAAATGCCAAAGGGAAGTGAAAATGTCCTGACTTCTTAAACTCTAACA
TAGCATTCATCCTATTCTTATATTTTTTGAACTTTGCATCAAAACATACATAAATGCAGGTGCACAAATTGTAAGTGTA
AAAGTCAATGAATTTTCACTAAGTGAACACACTTGGCTCACCAGAAGCTAAAGAAAGGGTGAACTAGAAGGGGACTTTG
TAGATTACACTTCCTGACACCATCATTATTTAAGAAAGAACTGTTTCCTAGGTATATTTTAGGACCTTTTATCTGGTGA
TATCTATCTACTAACTTTAGGGGTGGGGTGGAATTGATTCTTTTTACAAGATTAGTGAAGCTAGAAACAACTAGCTTTT
AATTCATTAAATGTAACCTACTTTCAAGTAGCTTCATGTGACTGAAATCAATCTGTTTTATTTTCCAAACCAGTGGAAT
ACACACAGGGTCATTACATACATTTTGAAAGTCTTCTGTTTCAAATGTATTGTAGATTAAGAAACAGAATGTGGCAGGG
CACGGTGGCTCATGCCTGTAATCTCAGCACTTTGGGAGACCGAGGCGGGTGGATCACTTGAGGTCAGGAATTTGAGATC
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GGCACACCCAGAATAATCACTATTGGACTTCTGATACCAAAAACAAGGGGGATTTCCTCGTTTTTAAGTTTTATGAAAT
GAAGTAATATTCTGTATACTCTTCCGAGTTTAGCTTCTTTGAGTAGGTTTGTGAGATTTATCCAAGTGTGGAATGGAGT
TATAATTTATTCATTTTTGGTTTTGGGTGATTGTATTTTTAAAATTAAGGTAAACATTAAAAGTTAGGGTTTAACCCAC
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TACTCAGTCATAAAAAGAAACCAAATAATGTCTCTGGCAGCAACTTGGCTGGAAGTGGAGGCCATTTATTCTAAGAGAC
GTAACTCAGGAATGGAAAACCAAATATCATGTTTTCACTTACAAGTGGGAGCTAAGCGCTGAGGATACAAAGGCATAAG
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TCCTGTGGAATGGTTCCTAGCCCACGTGACCTTGTCTGTGTTGAAGCATGAGTGAATACATACTACCATCTACTTTAGT
GAATGTTGATGATAAAATGGCCAATTTCATGTATTTGTTTATTTTCAAGAAAACCTTAGAGCACTCGTTCTCAAACTTT
AGGATGCATCAGAATTACCTGGAGTGCCAGAATCCCCTGAAGTGGTTGTAAGAACTCATTGCTGGGGCCAGGTGCGGTG
GCTCACACCTGTAATCCCAGCACTTTCGGAGGCCAAGGCAGGCGGATCACTTGAGGTCAGGAATTCGAGACCAGCCTGG
CCACCATGGTGAAACCCCTTCTCTACTAAAAATACAAAGATTAGCTGTGCGTGATGGCGGGCACCTGTAATCCCAGCCA
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GCACGTTGCACAAAGCATGAACTTTATTTGGAGTCTTAGATAAACTTGTTCTGATCTAGAAATGAAAAATAATGAACTC
TGCTGAGTTCTGCATTTMCTGTCTGAAGTTAGCTTTACCATAAGGATCTGGTGGGTAAGTGTTTGTTGTTCTTGTCATT
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GTAAGTCTAATGTAAGTCCATTTTATTTTACCCTTTCTTTAGGTTCTGCCCTTGTATCTTAGAATAATGAAATATGAAG
TGAAATTTGGTGTCATGGTTTACCTGTAGCCATTTTATAATTTAGATTCATGGGTTTACATTACTTACTGAAACTACTG
GGGAAACATTAACAACACAATAGGATTCCTAGATTGATAAACTTCAACACTCAAGCTATGACAGTTGTTCTCAGTCTCG
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Fig. 6.175

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AAAAATTAAAAAAATGTTTAGCACCTTCAAATATCAGATTCACATCCTCATCATCCTCACTTAGAGATTTTAAAACTAA
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CCTGTTTGCATGATATGGTCCGATGGTTTACTATGCTATGTTTGTCATTAGTCACCCAAGCACAGAATCTAAAAGTCAC
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GTGAAACCCTGTGCTGAGCACCCCAGGGTATGGCCTCCAAGAGGACACACAACACTCTTTTTGGAGAAAGCTGAAGACA
GTGGGGGCAGTGACTGAAGGTCACGGAGTTGGTAAAAGGCAGAGCCAAGCTCAAACCCACACAGCCACATACCTGCAAC
TGTGTTGTTAGCACTGCACTCCCCAGTTACCAAAGCCTTGTTTATTTTCCAGTCCTAAACTCTGCTTAAATGTGCATGA
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Fig. 6.176.

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AGATTCAAAATGGATTTTTCAAAGTTACGATATTCAGTGACTCCTATAATCTAGAAATTTCTCCCAAGACACCAGACTT
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CTGTGTATCTGTCCATGTCTGTGTGTATGTCTGTGTCCATGTCTGTATGTGCATCTGTGTGTGTGCATGTGCCTGTGCA
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CCTCTGTTTGAAGATTTCCAAAGAGGCCTTATTTTGTAGTGGAAAATGTCCAAACTCCTTTGCATATTCACTTATTCTC
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AAATGAATACTACAGACCATGTTAATAATGTCAAATAACTCTGGGAGTTTGAGGGATAATTCTGTCAATACGAGTTGAG
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Fig. 6.177

183/375

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GGTGTGCTTGGCCTCTCCATCATTTACCCTGCTTTTATGAGGGTTAGCAGCACAATGTCTTCATTCTAAAACACAGAAT
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CAAGGTTTTGTTATTGGGCTCAGCTCTATGTGCCCAGCTCCTTCTTCAGTACAAGGAGCTCTCTCCAAAGAGGTCACTA
AATCCCCTGCAAATAGTCTTTAACTAGACCTTTTCAAACCTTGTCTCTTTTTTTTCTTTGAAATGACACTGTACCATGA
ACATTTTTATGAAATCATTAAACATGTTAAACTTCATCAAAGCCATCATTTTAAAGTCTTCCATGATGTCTATCTTATA
GAGATACACCATACTAGAATGCATTTTTTTCATTTTTCTATTGCTGAGAATGTTGGGTTTTATACATAGCTTGTTATTT
TAAGTAAATGTTGTGCTTTACCTTGTTCCTATTATACTTTTAATTCAGCCTACTGTTAGCATCTGTGGATGATTTTCTA
TGCTTATATGTCACTCAATATATTAGCCATCATTTCCAGCTTTTGGCTTTACATATGCATTTTTAAGATGTGTCTCTTAC
CTTTTAACCATCAAATCAGATTTTAGTTGCTTGATAGACCCAGCTTTTATATTTCAGTTTATGCCACCTCTAAGGTCGT
TGTAGTGAGATGCCTATATAAAAGACATACAAATTCAAGGAGTGAATTAAAATCTCACTTGAAATTTTAAATGTCACTG
AATATTAATTGTGGTCGCTAATTGGTATATTTTCTAGTAATCACTTCAAAAGCTCCTCATTAAAAATAAATCATAAAAA
TATAGAATTATAAGAGCTTTTAGGTATAGTTCAATGATCTAATTCCATCCATTTATCTGTCCATCTATCCTTCAGCAAG
TCATTTATCACCTTCCTTCTGTATATTACAGATGATAATAAAGACATCTGGGACAAAAAGGTAAGTCACAGACCTACCC
ATGTGTATGGGTGATAGAGTAGTGAATACAAGTGACAAAGGGTGTGATTCCTTCTGTTTGAGAGGTGAAGAAAGTATTC
CCAAAGCAAGTGACATTGAATCAGCACCTTAAGATAAAACGAAGAACTCAGCAGAAAGAAAGTGAATGGGAAGATGTGG
TAATAGGTTTAAATGGACATGGCATGTCGGCAACTAAATTTCTGTAGCTCCAGAATATTCTCCCCAGTCCCCTGAGACG
AAGTTACAGAGCTGTGAATCCGGTAGTGAAAGCCTTGGTATAAGGCGCATAAGAAATGTGCAGATTATCTACCATGAAA
TAGAGGAAGAAATCAAGGTTATTCAAGTAGAGGAATGACACGTTTTAGAAAGACTTTGTTATAACGTTATGGGAAATG
GATTATAGGCTGGAGGCAAGAGATAAGACATTGTCAGTGTGACAGAATATTTTATTAATAAAGCACATAATTTATACTC
AGATCTATGTGAGATGAGACCAATTCATGTCAACATGTCCAATGTTTTTGAAAAAATGCTAAGTTTTTATTATCGCTTT
TGTTTATTTCCCTGTGAAATATAGTAGGCTAGCCCTCTATTTCTCCTGGCGAAATCTTTAGATAGGTGGAAAAAAAAAT
GTTGAAAAAGGGCATCAATGACCTCTTTTATCTTGGTTTTATCTGCCTTTTGGAAGATACTTGATTCAAAGCTATGAAA
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Fig. 6.172

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AAGCATCTCACCAATCCCGTATTTCACTTGGTTGGACGATGTGTCAAGAGAACGCCTGAGGCTTCCTCTGTCCGTTAAC
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TCCAATTCCAAGTGCTTCATCATCACTCGGATAGCCTCAGGAAGCTGAGGTTTTACAGCTGCCTGGAACCCACATGCTT
CATGTGATGTAGAGCAGCCCTGTTAATTAGCTGTTTCAGGATTCTTAATGCCCTATGGCTTTGGAAACACTTGTTAGCC
CACAGAGGGAGGGGAAGAGCTGGAAGCAATTGGACTACAGCCTGAATTTATTTTAATTCAATTCAGTAACCACCTTATC
TTTCTAAATCCCTGTTTAGAATCTGTTGAAAATTATAGTTGATTTAAGTTTTTTCTCAGTGATGCATCCTGAGAGAAGAG
GGAGATTACAATTCAAGGTTTTCTGAAGCCACAGAAATGTGGAGTGCTGCAGAAAGAGCTGATCGATGGAACTTTCCAG
ACACATGTATGCAATTTTCTAAAGGCTAGAAAATAGATGCCGGGGATGGGGAGAGGGGAGGCCAGTTGATGTGGAAAGG
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CCAACCATTCTCACTGCAGAGAGCTGGCACTCAACAAACTCATAATTTTTCTCAATACAATTCTCATGACATAACCTGA
CCAACCATATGAAACCTAATGAAGAAAACAACCATTGCCATTGGCAACAAATGCAGGAGTTGCATCACAAGTAAACCAC
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AGTTTACAAAACCTTCACTGGAAAGTCCATACCAAAATTTTTAAAATGCATGCAAAAGCTAATTGTGTTGACATCTTTC
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AGCATCCTCTTCCTCATATTCATCCTCTGAAATACCAAGAGGTGAAAGAGTGTTTCAGTAGCTCACCATTCTTGGCTGT
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TATCTCCCACCAGGTCCCTCCCACAACACATGGGAATCATGAGAGCTACAGTTCAAGATGAGATTTGGGTGGGGACACA
GCCAAACCACATCACCCATTTTAAAACAGGCTTGATATCAATTTATTGCTAGAAAACTATAATTTGTATTTTCTTTTAC
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CCCAAACATGTTTTCAATACTAATATTAAAACAAATTAGCTTAACAAATACAAAAGGTAATGCCTGGTTTATACAATAC
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ATAAAGAACTTCTAAAAATCAATCAAAACAACATAGTTCTTAGAAAATCACAAAGGAACAGGTTTTTCAGACTCGAGGA
TGTCTATATGGTGAAAAAGCAGCAGTATTTTAGAGTTGGTCTGAACTGACTCACAGGAACCTATTTTTAAATGTCCAGA
AATTTGCTAAGCAAATTGTTAATGCATCAATTATCTAAAGTTTAATTATGTAAACTTCAAGTTATCTGAAAAACATAAC
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Fig. 6. 177

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ACATACTCAAAACTCTCATCCCTTCCTAAGTGTTTTACTACATTCTGTTATTTCTGTTTGTGAGGTCATTTGTTTATTG
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CTGTGTCCAAGTTAATTGCCTTCTTTTGCTGTATTCATTAGCCATCAATACCTACATAATCTAAGGCCAAGATACACATAT
GGAGCAATCTATGGACAGGCAATAGCATCCCATGGGAGCTTTGGAAATTCAGGAGCTCGAGCCTCACCCCAGATGTGACT
GAATCAGAATCTTTATGTTAGCATGGTCTCCAGGTGATTTGTAGGTCCATCAATGTTTGAAGAGCACCTGTCTGGCCTT
CAGTTGCCTTTATACATCTTCTTACCAACAGTACCATCTAGTCCAATATTTTTCTGTCCTGTTAGTTTGTCCATAGTCT
CCCAACAGGCTTCTGTCCACAAAGCTGTTATTTAGAGGCATGGCCCCATCCCTCTCATAGTCTTTGCTAAGGTTATGTC
```

Fig. 6.180

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TTTTACATTTGGAGATACACCAATTGCAGAGGAGGGTGAAATTAGCCTGAGAGCAGGACCATAACAATAACCTGATTCT
AATGGAGGCTGTTACCAGGGCAGCCAGTACCCGAACTAAGTCATCATTCTGCTGGAAGCATTCCGTTTGGCTGCAGTTC
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CTTGAGGATTAGAGATCATTTGGTGTGGATGACTTCGAGGAAGTTATTTAATTTTTTTTTTGTATGTCAGTTTTCTCAG
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AAAATAAACTTTTCATTTCTAAAATTAACCCATACCTTCTTATCCAGTAGACAACATAACCTCTCCCACTATCAGGTCA
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GAGAAACATACAATGTTTTCCATAGCTGAGTATAAATCATTTCTTCCATCCTTTTGAATTAGCCACATCATTGCTCTC
TTTCCATTGTGGGAAATCTAGCCTTGCTTGTTTGTACCTAGACAAAAGCACACTTTTTGTGTCAGAACCTGTGAAAATT

Fig. 6.18

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TTATCTTCCTTGTTACCACCTATAAATGATTAATGAGACAAAACATTTTCAAGGATTCCAAATAATCTAAAAAATCCCA
CAAATTTTGAAAATCCACAAAGAGGTATCTAGGAAAACTTTCATGAAGTTAAGAGATGTTATCTGCTGTTCTAGGCGTG
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TGGCATACTATTTGTGAGAAGATCAGCATGTAAATAGTTTACTCTTTGTAAGCTCTTCTACAAGGTGGCTAAAAGCAAG
AACTAGAACCCAGAGTCCCTTGCATTCAATGAATTTCCCTATTATTGCCCATATCATTCTTTCTTTTCTTTCTTTCTTT
CTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTCTCTCTCTCTCTCTCTCT
CTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTTTCTTTTTCTTTCTTTCCTTCTTTTTGAGAT
GGAGTCTCGCTCTGTCGCCCATATCATTTTTAGTATAATCTCTTCCTTTACTTGGTCACTAAGAATCACTTTTCTCTAC
TTAGAGCCAGACATTTAAATATCTCCAGCCTCCAAGATCTCGTCTGGGTACTTGGGCTGCACTTTTTCATGTCAATCAT
TTTGCACTTGTCATCTATCCTATTAGGCTATAAGCTCCCCAAGGGCAGATATAGAGACATAGTATCAAGCTAACCTTTT
TATTTATTTATTTATTTATTTATTTATTTTGAGGCTGGGTCTCGCTCTGTCATGCAGTCTGGAGTGCAGTGGCAT
GATCATGGCTCAATGCTGCCTCAACCTCCCAGGCTCAAGCAATCCTCCCATCTCAGCCTCCTGAGTAGCCTGGGACTGC
AGACGCATGCCACCACACTCAGCTATTTTTTAATGTTTTATAGAGACGGGGTCTTGCTATGTTACCCAGGCTAGTCTTG
AATTCCTGAGCTCAAGTGATCTTCCTGCATTGGCCTCCCAAAGTGATGAGATTACAGGTGTGAGCCACCACACCTGGCC
AAGCTAATCTTTAAATATCCTAGAGCACCCATTATAGTGTCTGGCAAAAAATAAATGCCCATAAATGTTTGTTGAATGG
AACTGAGTCTTCAGAAACTAGAGATTTTTTCTAAAATATTTTTTTTGCCATTTCAGTTAATACATATTAGTTTTTCT
CACTTATCCTATCATCTGAATTTTTTATTTCTTTGAACCTGAACAGGCTTTGTGTCTACAGACTGCTGAGCCTTTAATT
TTGTTGTCGTTTGTTTTGTTTTGTTTTGCACAAAACTAAAAACATGTACAAATACATTTTTAATTGCATTTGTTCATTC
TAGTTTTTACTCGTAAAGTGCACTTCTTTCTTTTCTTTCTTTCCATTAATTTCTGAACCTTCCCTTCTTAAACTTTACC
CAGAGTTTTCTCATCATATACGCATTTCATTTTCATTGTACTTTTCTGCATCTGACTATTTCATTTTCCAGTTGTTCTG
GTATGTTTTTCTAAGTATTGTCCAATCCTTTCCATTAAGTTACAAGCTCCTTGAGGGCAAGCATTGCACACCTGTTTTG
CACAACTTCTAAGGCCGTTCAGTCCCTCAGCCCACTGTATAGAAATATAGTATATATATAGACAATACACACACACATG
CACACACATACCTTGCCACTTAATGATGTAAAGTGACAAAAACTTTTATATTGGTAAAAATTATGAGAATAAGAATAAT
CATATCCTGATTCTTCAAATTCAAATATTTGTCTAACATTTTTTGATGAAGTCATAGCACTTATGTGTCATTGAATTGT
TGTGGGCATGCTAACAGGAAAGATGGACCAAGTGGTTGACCCTGTCCTTCTGTGAATAGAACCTCAGAGTACACTTTTC
TGTAAACATTTAAAAGACAAGGAATTGGAACTTAAAATGGAGCAACCAGGGGGGCAGGGAAACAGAATAAACTTTTAAA
ATTGACCTAATAGTAATCATAGGAAACAAAAAGAATCATTCCAGTCTCCATTTTTTTTTTTCTGGATGCATTTTGTAGC
TCCCTAAGTTATTGGGTTTTTAAGAAACATAAAATATTCCTAGATCGTTAGAGATGTGATTTGATTTCAATCCCACATG
GTCTGTAGCATCACTAAGCTACTGGGAACTTCCCTATGCAAAGGTTTGAGTTTCTTTCCAATGCTGTTAATGTCTGCA
CTTCTAGTGTCCACATAAATGAGATTTAACAGGCTTTACTTCATACTTTCTTGTTACAACATTTTTACTTTTTTTCCAA
TTGCAAAATTATTTCTTTTAAGCTCTCTGAATAAGTTTGTTGAAGCTCTATTCATCACACATAAAAATCTTACATTAAA
AGGCAATAAAGGAAATCACGAAAAGCTAGATGTATTCCACCCTCTTATAGTTGAATACATAAAATTGTATATATCACAA
ATAGTAATTGAAACTACTCTTATGAAAACTATCTGTCCTTCTGGAGGGGCATTAGTTTAAATGCAAAGAGAAAACATAT
CATTTGTGAGTCTAAATAGTGTTGTTAGTTCTTTGAAAGGGCCCTAATTAATAAGGTTGTAGAACACAACTGCAACCTG
TAAAGCGTTCCATGTGTAGTATTTTGAAACCTTTTGTTTGTTTGGGTTCTAACTAGAACAGAGGGAGAAAAAGTCAAT
TTCATTCTCATGGGATTTGTCTTATGTGGTTCATCAGATTGAGTTTAGTAAGCAGGGAAGTATTTCTCCTTGTGTAGCT
AGTGCTTGTTTATTCTTCCCTTATTAAAAAAAAAAGAGAGAAAAAAACAAAGGATTGGCATTTTTCTTTTATGAACGTG
GACTGTAGGGAGATAAATAGCCCTGCGGGAGAGGAAGGTCAAGTTCAAAGTTTTTCTTTCCTTTGGATTCAGGAATAAG
CAAATGGAAAGACTAGCCAAACAACCCAGCAGCAGGCATCTGATGGTTAAGCCCTCCCCCCAGGACTTTTTATGTACAT
AAGCAGCAGAAGTCACTCGCGCAGCTGCGGCGCATTAGTTCCAATAGTTTAACAGGCTGCTTTGTAGCACGGACAAAGC
CGTGCGAGCGCGGTGCTTTCCCTCCTTGTTCATTTGCTATGCGAGCTTGTCAGTGATCTTTGGCAGGGGCTTGGGAGAG
GAGGGGTGACGTTTAATACGCTTCCGCGGAGGAGTGCGCTCGCCTCCTCTGCACCCAGCCCCAGGCTCTACAGAGAGAC
TGAGGCAGGCGACTGAATGCACTAACAGCAGCAGGCTCAGACCTGCTTCCCTGGACATTTCCGGGACCGTGAGCGAGGG
AACCACGTTGCCCTGGATTCTTGCCAGCTGTACAAAGTTGACCAGGAAATGGCTCAGCAGACAAGCCCGGCACTTTA
ACAGTACCTGAAGTGGATAATCCGCATTGTCCAAACCCGTGGCTGAACGAAGACCTTGTGAAATCCTTGCGAGAAACC
TGTTGCAGCATGAGAAGTCCAAGACAGCGAGGAAATCGGTTTCTCCCAAGCTCTCTCCAGTGATCTCTCCGAGAAATTC
CCCCAGGCTTCTGCGCAGAATGCTTCTCAGCAGCAACATCCCCAAACAGCGGCGTTTCACGGTGGCACATACATGGTAA
GGTTTGCGCAGACCTCGCAGAAATGGTGGCCGTTTCCCTTCAGGGAGTCCTGCTCTCGCGCCTTTAATTTTGGGGGTAG
GGAGGGAGGACCATCATCATTCCTCACCGGGGATTTATGGCCAAGTGATCTCCCTTAACCATAAATCCCACAAATGTCC
AAGTCAGGGCAAGAATCCTGGAGACTGGTACTAGGAGTGGTTGAGGTGGGTGGTTCTCAAAGTTCAATTCCTATTGCAA
GTTCCTACAAGAAAATTGGATGCCAGATGTCAAATAAGAATGCAGTTTTATTCCCATACGTACGTAGTGGCGTTTCTTT
GATTCCTTAAACCAATTTCCCTGCCAGCTTCCCCAACAGCTGAGGAAAGAAAGGACCAGAAATGAGGGGAGGAAAATCA
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Fig. 6.⌐182⌐

188/375

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TAGTTTGCTCTGTTTTCTGCATGATCCCCACTTGGACAGAGACACATACAGTGTGTGTGTAATGGTGGTGTGTCTTCAT
AAAGCCCTTCCTCACTCCTGACTTTGATATACAGTATTCATAATCTTAAACATGCCTTTCCAAAGGAAAGAAGAAAGGG
ATTAGGAATTCTACGCAGAAAGTTGCAGGCTGGTACTTGGTAGTATTGTTGTGTTCTTTGAATTTGGATTGTTAGAACA
TTTTGCCAATCTTTTTATTTTCTTTGTGAATATTTTTATCTTCTTTATAATGGGTGAATTTGTTTCATGCATATGCTTC
CATGTATTTTTCTGGAGGATTCCTCATCTTTTCCTGCTCTTGGAAAAAAAAAAAAGAAGAAAAACCCAAATATTAAAAC
AGACCATCATGTGAGCTTATTTGGAGTATTTGGAGTTTCTGCCTGAGTAGAGGCCATTCCAAACTCTGATCAGTGAGTC
CAAGTACTAGGGTCTATGTTACACACTTAGATAATTTCAGGTAGTAGTAGGTTCTATACATTACATCTACATTTTGATA
AGATGAGTATAAATTATGATAAAGAAACATAACAAAAAGAATGAGTGTGTTAGTTGAGAAACTGTATGACTAAATAA
TTTTTTACAGTTTTGCCATAACTAACTAAACAGTATGTACGTTAGCAATGGGAGGGAAAAAAAAAGCAGAAACAAGGCT
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GATGTAATGGCCATAAGAGGAGTGAGACAAACATTGACTTTTTCTGTCTTAAAGCAGTTATTGGGAAATGATGGCTTCT
CTTTGAGGAAGATTTTCTTTTTGGAAAAAATTGTGAGCAACAAACAGTGAATAAAAGAAAGGCATGAATAAACACTGGG
AGATGCACTGAAGGAGAAGGTTGGCTCAAGGCCAGGCATCGGGTGCCAGAGCAGGAGAGCTGGCATGAGTTCCTACGGA
GCCAGGACCAGAATTTCCGTGTCCAGTGTCCCTTTTGGTTGCGCTGCTTTATCACTGCAGTTCCTAAATTGCACCCATT
GCTGAATGAGTGGCCCTCAACTCAGCTGTTTGATTTCAGTCTGAGTGGAGCAACCTAGAGTTCAGCTGGAGGTTATCTG
AACTATTTAGACATGTCGGGATGTAAGGAAGGCAGGAAATCCCATGAAAATAGGCTTTCTTCTGACATTTCTGGCACTT
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CCCCAAGACGTTCATAATATCCACAGGCATCTTTTGACAAAAATCTCATTTGTGCTTTCACAGTTTGTGCTAAGCACTA
TGGAGAATTTTGAAAATATGTTTCAAATTGTTCTGACATAAATATAAATATATTTGTATCTAATTTGTTGCTAGTACAG
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TGTTTATTCTGTACCTAATTATTACAAAGTTGAGCAAGAACCATTTGTTGGTTTCCAATAATTTATACCATGGTAGAAT
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ACCTGGAATTCTACCATCCTGTGGTTCCATTATTTGCAACATGTGATTCCCAAGGTTGCCAGGCTCAGATGAATCAGGA
GAAAGACCATGAAAGAGGATGGTATGTGTGAACTTTTATGAGACAGGCCGGGAAGTGCACATGTCACTTATACTCGTTT
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TGGGAACTTAAAAGTTGCTGTTTAGTCATATTTAAGTCATAAAACCTGTTATCTTCACATATTCTTTTAAAAAGTAATT
TAGCATTATAATCACTTAAGTTATAATTTTTTCATATTTTTATAATACACATCTATATATCCACGACTCAGATTTTTTT
TTATTTTTTATTTTATTATTATTATACTTTAAGTTTTAGGGTACATGTGCACAATGTGCAGGTTAGTTACATATGTATA
CATGTGCCATGCTGGTGTGCTGCACCCATTAACTCGTCATTTAGCATTAGGTATATCTCCTAAAGCTATCCCTACCCGC
TCCCCTGACCCCAGACTCAGATTTTTAAAATGCCAAAATTTTGTCATTGTTTGCATCAGTTCTTTTATTTTTTTTAAGAA
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Fig. 6.183

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TAAAATGTTACAGATAATGTCTAAAGCTGTCACCCATCCTATTCTTCTTCCTTCGCAGAGGATCCTGAAATCAGTGTGT
TCTTCCTTGAATGTCATTGTCTTTTAACTTCATATGTATGTGTCCTGTTTGTGTGTTTACCATTTTATATATAGAGATG
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TACATATATACACATATATGAACCTATATACACATATACACATAYGTACCTATATACACATATACACATATGTGTACCC
ATATACACATATACACATATGTACCTATATACACATATACACATATGTGTACCCATATACACATATACACATATGTGTA
CCCATATACACATATACACATATGTGTACCCATATACACATATACACATATGTGTACCCATATACACATATACACATAT
GTGTACCCATATACACATATACACATATGTGTACCCATATACACATATACACATATGTGTACCCATATACACATATACA
CATGTGTACCCATATACACATATACACATGTGTACCTATATACACATATACACATGTGTACCCATATACACATATATGC
ATATGTGTACCCATATACGCATATGTGTACCCATATACGCATATGTGTACCCATATACGCATATGTGTACCCATATACA
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CCTACTTATATACAAAAGTTAACTATAAAACAGCCTCAGGTAGGTCCCTCAGGAGGTATCTAGAAGAGGGCATTGTTCT
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GATACTGATGATCCTGTCCTTGTGTAAGCCTAGGCTAATGTGTGTTTGTGTCTTAGTTTCTAACAAAAATATTTAGAAA
GTAAAAACAAATTAAAAATAAAAGCTTATAGAATAAAGATATAGAGAAAATATTTTTGTGCAGCTGTATAATGTTAGTG
TTTCAAGTTAAGTGTTATTACAAAAGAGCCAAAAAATTAAAAGAAAATTAAGAGTTGTATAAAGTAAAAAGTTACAGTA
ACCAAAATTAACTTATATCAAAGAAATAAAAATATTTATAAATTAAGTGTAGCCTAAGTGTACAGTGTTTATAAAGTCT
ATAGTAGTGTGTGGAAATGTCCCAGGCCTTCACATTGACTCACCACTCACTCACTGAGTCACCCAGAGCAACTTTCAGT
CCTGTAAGCTGCATTCGTGGTCAGTGCCCCATACAGGTATATCATTTTTTATCTTTTATACTGTATTTTTAACTGTACC
TTTTCTATGTTTAGATATACAAATACTTAACCATTGTGTTATGATTGCCCACAATAGTCAGTAGAATAACATGCTGTAC
AGGTTTGTAGGCTAGGAGCAATAGGCTATACCATCTAGGTTTGTGTAAGTACACTCTAACATGTCTGCACAATGATGAA
ATTGCCTAATGACACATTTCTCAGAACTTAGAATAAGCAATGCACAACTCTGTGTCAATTTGCCTCTAAAAACCCAGCT
GTTTATACTCTTAAAAATATTGTTACTATAGCTGTCAGTATCACACTCCAATCTAAGTGAATGTCACAATGAAAAACATT
GAGTCATTTTACTATAACGGAAATGAAGATGTAATTTCCTGAATTTAACAGTCAATTTAGGCTACATAGTGAAATATTT
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GTTAAGAGAAATATAAATTTGCAAGTCATAGAAGGGGAAAGAAACCATTTGTCACCTATAAAAGAGAAATACAGCCACT
TAGAGTTTGTAGAGTAAAAATACACATATACACACACAAACAACTGAGTAGATTTTCAAAGCCATTATTTAGTGATTTC
TCTTTGAGGTCTCTTTCTCCCTCGTTCCATCTCTCTTACTTCTGCCCTGCTTAGCTTTAAGGTTATCTTTTCTCTGTCT
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GGTGGAGGCGCTGCAAGTTGAGGGTGTCTGTACCATTTGAAAGGCATAGTTGGCTTTCCACGAAATCAAAAGACCTGAG
GAAGATTTTCCTTTTAAAGAACATGCCGATTGGCTTGTCATGTTTAAGGAATTACAGGGATTACATTATGACAATTGGC
ATTGAGAAAAAAGTGAAGAAAACCTTGGATAACCTTGCAGCTTATTATTCACGTGTGCTTCCCATGACCATTGACATTT
ATCTTAAAGAGAAAGATGTGAAGCCTGTTCGTACGAGCTGAAGCCGTTGCTACTGATGGTAAAATCTCTTCTTAAGAA
GACATGGTCTTTCTTGCAAACTTGGCAGAAATGTTGATAAGAAGAAAATAAAAACTTGAATCTTAAAGTTCATTAAAAT
AATGAAAATCATGGCTTTGATTTTTTAAAAAATATTCTTTGTGTAAATTTCTTTATAATTGAAAAGCTCCTATGTATTC
AGATAACTAAAGGAGTTTCAGCACTTTTTTTTTCTTAGATAGAAAGCTACCAAATTTGTTCTTCAAGTAGCACTTTCAG
GAAGAAGCTTTACTATCTCTAATGTAGCAAATAATGTCTTTTTTTTAATGGTTTTGCTTTTTAAAAAATCATGTTTTT
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AACCTTTTTGACTTGGAGACTCTATTAATAAGTCATATGGTTATAAAGGCATTTGGCATTTACAAGTAAAAAGTAATGA
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TCAGGGCCTTCAGAATGAAGGTATTGGTGGTATTCACGTTAGGCCACCATCTGAAAGGCATAATTTTAGGTAACAGATA
GGGAAATGTATAGATCACTGTAAAGATTCTAATTTAAAATTCTCTTTTACTAGACTTCAATTTATACCATCTTAACAC
ATCAGTCTCTTCTACTGTAAATAAGCAAAACAGAAAAATCATTTTATGTGCAGTTTTAAGGACATAAATACTCTCCAAG
TATTTCAGATGAGGCACTTATTCTCAAAAGGAGATCTTGAAAAGTTGATCTGAGAAGAAATTACATGATTTCATTTTGG
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Fig. 6.187

190/375

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AATAAAAACACTTAGGTTCATAATAATATAGCTTTATAACCTTAGATTAATTATAACATAGACGTCAATGATTTAGCTC
CTGCCATGTGTCAGGTACTTTGTGTACATTAACCCCTTAAAACAACCAAGGTTGGATGTAAGTATTGTTAACCGTACTT
TACATATGCAGCTGCTGAGGCCCAGAAAAAGTTCTTACATAACCAAGATCTTTCAGCTAAACAGCTATGAAACCAATAG
CATTAAAACTTGAACCCAAGTCTTCCTAACTCTCCATCGTGTGTTCTTTCTTTCAGCATTACCTTCCTTTGGGCTAAGA
ATCACATTCACATTTGTTACCCTACCCTGCATGTGTATTGAAGTTATAACAATGAATATTCAAAGATTTTACAAAATAG
TAGTTAACAGAAAGGTAGAGACAGAGCCCTTTTTTGGTGTGGAATCTCAGTTTATTAGTTTACACATGTGGCTTGTATA
GAAGTTGACATCCTTATAAAATATTCTTATAAAAATATGTGTGTGTAGGAGAAATATATGTCCTTGGTGAAAAGGGGTC
AATGGAGAACATTTGATTCAGGGTTGTTTTTACATAAGAGGTGTAAAAACAAAGCCAGCCAGAGAATAATTTTATAGTC
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AGAGCCAGCTGGGAATGATGGCCGGCTAGTTCAAGTCACTAAGCAACAGAACAGCAAACTGCTTGGTAACAAGATCTGG
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AACCATTTGTGTGGACTTTGTCACCATGACTCAGTGTGTGTCTCTGTGTGTGTGTGTGTGTGTGTGTGTATGTTTTG.
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GTGTAAATGTATCTATGATTCTTGGGAAATTACTGAATAACTAGCTTGTTAAATTCTGATGACTAATCCTTATCTTTTA
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AAACCCTTCATAGTTTCATTTTCAGTGTTTTAATTTGGAGAAATTTTAACTGGCAGAAATTAAGTACCATTTTTCCAA
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AGGCTTCCTTTAATAAAGCCTTCTTACTAATAAGAATAGCAGTTTCACTAACACATTGATCATTCTTGAATCACCTTCA⠆⠆
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AGCACTGGCTACGTAATTTGTAGGGCCCAGGTAAAGTGAAAATACAGGGCCCGTTACGCAAATAAATATTACAAATTTC
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TCACTTACTGATATGCACAGTATTAGTCATGGCAAAATATTATTAGCATTTGAAATTGATGCTCATCCCTCTTTGTTGA
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Fig. 6.185

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ATTGAAAGTACCCCCGGTTACATAATTATTCCTTTGACCTTATTCAGTATGTTCCCTGCACCACAAGTGTCTCTCCTCT
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Fig. 6.1186

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AAGAAGAGATGTCAAAATCAGAGAAATAAGATTCCTCCATTATGAATTAACATACAAAATCTACACTTAATGCATCAGA
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Fig. 6.187

ACTAAGATGCAATGTTTTAAAGAGATTGAGTTGACAGGTCAATCAGATGGTAGGACTGGTAAGAATTTGAGCAGGCATA
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Fig. 6.188

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GTTGCTGTTGTTGTTGTTGTTTTGACACAGAGTCTCATTCTGTCACCCAGGGTGAAGTGCAGTGGCACAATCTTGGCTC
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TAGCCTGTCTATAAAAAATTGAGACATTTATTTAAATAATAATTGTCCCACAATCTATTCATGTTTATGCATGTGGATA
TTTGAAGCAAAATATGCCATAGAAACAGTATCTCTTGCTCACTGAATTTTAAAGTATTTTAACATCAGTAGCAAGTGCA
TAATAAATCTTTAATGTATAATACGAACTGATAGAAAAATAGGGCTCTGCATATTTTTTCTTGAAAAACAAATGTGTTT
TGAGAAATATAGCTTTGTCTAATGCTGCCTTTGTAAAACCGGGAAGTCAAAAGACAAATAATATTTTGATTCTATATGT
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TTCAGATCTTTGCAAAATCTAAATGGGCTTGTTTTTAATTTTCATGTGGACATTTGAAATTTTATAGATAAGACTAACA
ATATGTTTTACTGTACTGTGAGAATTTAAGATTAATGAAATATTATGTTATTAATTTCTTACATTGTAAAGTTGTTTT
TCACAATACCGTGGCCTATTAGATTGCTAAGAAATTATGTATGTCAACTCTTTCTTTATACAAATATTGAAAATGATAG
TAAGATTAAGGAACTTGCCCAGGTCACAATTTTTTTCTTTCAAATTTCATGGCTGATTTCTAGGCAAAAATTTCAGGGG
CCTGTCCAATACGCATGAATTACCCTACTATAAACAAAGCTAGGGAATTTAATACATACCGAAAGGCATTTTGTAATAT
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CACTTCCAGGAATGCGACTTTAAAAGCCTAGGCTTTATGTTATGTCATCAAAGTCATTGTACTCAATTAGACAATAGTG
CTATAATTAATTAAATGTTATTATGTAAATGCAGAATTACCAAAGAGAATTTCAAAGAGTATAACAGTATTAAGTCGTT
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TGTGGAACTGATTGCTTCTTTCATGATTTCTCCTATATTTGTCAATCATTTCCTTTTTTTCTTTTTCTTTTTTTTTG
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GCAGTCTAGACCTCCGCAAGCCTTTGCACGTGACTGGACTCACTCAGGTTAATCTCTGAACCAGTTGTAGAGAGCTTTT
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Fig. 6[185]

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GGAAACTGATTGATAGTCCCCAATTCTGTTTTGATCTGAAATAGCTTGTTAAATGAATCTCATTGTCAGAGCTAGTTTA
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CTACGAAGCTTTGCACGTATCGGAACTCCATACCTGCTTCTCCCTTGGTTTCTCTTCTCAGTGATAAAGGATTTGACTT
CTTTCTTCCCCATTCCAGCTTGCACATTCCTGAAGTTTTCCGGCTTGGAACAAATTATATTACTAGGTCTGCAGTATCA
TTTAGATTGAGAAGTATTGTGATAGAGCAAGGTTCACCCTAAGTATTGACTCTTAGAATCTGCTCATTCCATAGTCTGT
TGAGTGCCTTTACCTGTCACTGTTGTCCTAAGCACCAGGAGTGTAGCGATGAAGGATTTCTAGTCCTAGTTATCTAAGG
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Fig. 6./190

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ACTCACAATTAGGTTTCTATTCTGGGGCTATTTTGTACATTTGTGTACAAAAGACTGCATTTTTAAGGTGTCTGACTTT
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TGAGCAAAACTCAGGGAAACAAGTGACACTAAACAGTGTGGAGAATGCAAAGGCTAAAGGCTATATGAGTCCTGGCATG
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Fig. 6.191

197/375

AGCACGGAGGTATGGGCTGAGCAGCGCTGCCTGAGGAGGTGATGTACAAGTGGGTATTTATCCCCCCCGGGCAAACCAG
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AATATTGTTGATTGAATGAAATGAGATAATATAAGTAAATTACTTCCAGTAGTCCCTAGCACATAAGCACTCATTAAAT
GTTAGCTTTTAAAATTGTATTCCAGATTAACATGCCTAAAAACTAGGGCTACGTACTGAGAATTCATAGAACCAATTTT
ACTTTGTGTCTGTGTTCTTATGCCTGCATCAGGCATTACGAAGAATACAGAGAGACAAACTTTCTATTCCTCAGGGTTG
ACAATAGAAGAGAAATAATAATACACAGGAAATAAGTAAAAGTATAATTCAAACTCCAAGTTTAATGATGTATAAAATG
AAGAGGTCAGTTTGGGCTATAACAATCAGATAAGATTCACTAGGTGCTAAACTCGATCTAAACTGAGAAAAATAGACAA
GACTTATAAATATTAGTTTAAAACATAAATCTGAAAGTGTTACTCCCCTATATTTTAGTAAGACTTCTCTGTGGCCCTT
GCTCCTATAACAGTTTCTTTAAGGTTAAAACTGCTGGGTTTCTGAGCTCTTCTCCATCCTACTAAATGAGAACCTCTAA
TACAAGAGGACAGTGCTTGGAAATCTACATTTGTATAGAACCCAAGTGATTCTTATCAAGCAAATAATGGAAATTCTAT
CTTAGAGAAGTCTAAACATACTAAGGCCCTTGTTTAGACTCTATGTAATTTCATTTTCAGCCACTCTGGGCCTTGACCC
CTGAGAACCAGCAAAAGAGAACTTTCTTCAGCACTTGGCTTAGCCCTCCCCTCTTTTGTGAAGGAGTTTCCCTTCACTG
GTCAGTGTTCCTTGTCTTTAATGATGGTCTTGAACACCACTATGTTGTTGTACTTAAAAACACAGAGTTGTAACTGTTTA
CAGGTTTATATCCATTAAACCACTTGATCTTGTGTTTCATGCTCTCTTATTCTCACCTTAGCATTTAGTTACCACTCAC
TAAATCAGTTGATCTTGAAACTTTAGAAATCTTACCCTTACCTGAGGGGTCCTTGTTTACAAAGCAGATTTCTAGATGC

Fig. 6.(192)

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TCTTGCTCAGGTACTCTTATTCTGTAGTTGAAATGGGCATTTTAGGGCCAGACACTTTGGCTCATACCTATAATACCAA
CACTTTGGGAAGCTAAGGCAGGAAGATCACTTGAGTCCAGGAGTTCAAGACAGGCCTGGGCAGCATAGCAAGACCGTCT
CTCTACATAATTAGCCTGGCATGATAGCACATACCTGGCTACTCAGGAGACTGAGGTGGGAGGATTGCTTGAACCCAGC
ATTTTAAGGCTGCAGCGGGCCACAATCATGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGATCCCATCTCTTAAAAA
AAGTGAGCATTTTAACAAGTGTGTAAATAGTCTACCATTCTCTTAAAACACACACAAACATACACACCTTGAAAATGCA
AATGAATGAATGTGTGACAGAGTGGAAGAAACAGCTTCAGAAGGGAGAATAAACATAGCATTTACAGAAGATAGTGAGA
ATACCACTGATTTGGTATGTTGGATGCTGGTTGGGAGAATTTTATGGGAAAAATACCAGTTGAGTGAAATTATGGATGT
TCTTGAGAAATAGCAGAGTTTGAATTGAATGTGGCTTTTTGCATAAAGTGGTAATTTTGGAATTTTGGAATAGGAGAAT
GAATAAAGATGGCATCCCCAATAGTTGTCATGGCTAGTCTTAGGAAGGGTTGGATCAGATGATCTCTAAAATATCTCTT
AACACTGAAATGTATAGTGTTATGCTATAAAAATATGTAGATATTGAGTTGTATTAATAAAGCCTTAGCTTGTATTCATG
GGATAAAACTTCTACTTAAATAATATTGTAATTTCATTCATTAATGCATGTGTATAAAAGTGGATCAGTATTGTGGAAG
GTTTGCTTAAGGTGAGATACATGCAATGGTAGCCTGGAGCCAGGTAGTAGTACCAGCTCAGGAGTACTAACTGTTACGT
ATTCAATGATTTTGAGACCTGGTTGGAAAGCACAGGCATTATTAAATTATATAAACCCGTAATTAAATAAATTATATGA
AATGCAAAGGTAATCAATACTCAAAACTCATTAGTTCCCAAGTACTTCATTATATTTTACTATTATCCATGCTCTTGAG
GTTATGTAGTCCATCGTATCTGTGTCGTGGAAATACTATATAATGAGGTGCAGCTACAAATCTCTTCCCAACTCCACAT
TCAGGGCCATCACATTGGTAGCTTGAAATAAGACATGCTGATAGTAGTTACACCATGGAAATGGACATACTGCACAAAT
CAGGCCTTTTTTTTTCTCCTGGAGAGCCAACTGATAAATATTTACCAGCATACCAATGGCTCATGTTTAGAATAGTCCC
ATTGTTTTGGGGTAGAAATTCATTTTGGTACATGGCCTGACTCAAAAGTTCACCCCTTTAGTGTTACCTCCTGTTCAGC
ATTGAAGCCACTTATGTCTCCTTATATGAAACCAGAAACAAGAGGCTTTTTTTTTTTTTAATTCTAAGAGTGGCTGGCT
TTAGTTGTAACAGAAGAGAGCAGGTACCTTTATTGTACTTCAATTTAAACTCCTTTCAAAAGGATCTGAGAACTTTTTC
AAAAAAAATTTATTCCCCCAAATCTGATAAATATGCCTCTATTTTACAATCTTTTACAACTTTTCAAATTACTACAATC
TGAAAGACATTTTCAATCTTTCTTGAAAGACAGGGAGAATATTGCCATGGATGAAGAAAACAATGACTTGTTTCTTTCA
TTGTATAAAATCATTCTTCATCACTGTGAAAATAAGAAAATGAATTTTTTTTAGTTGAGCACAATCTCGAGATCTTTCT
AACAGCCTCTGTTCTTACAGTATGGATGTTACTCTTGGTTTATAGCTCTGCAAAGGAGTCAAAGAATCTTCCTTTTATG
AGGGCCCTGAAGAAAGAAAATTGTGCTGATAAAATTACTTTATGTGCGTTTGAATGATGATATGGCCAAGCATTCTTCA
GAAACTTCTGAATTTTTCATGTATGCCTTCAAGAGTTGTAATCCTTACTTAAGCAAATGTCTGTTTAGGAGAGATTCCA
GAGATTTTCCTATTTAGAGTGTTTTAAAAAATTAAGGAAGGTGTTCACCAGCTTACTAGAGGTTCCTTGTGAAAAGAGAA
ATGAGTTTTCTTCAACAGTCTTATGTCTTTGGTTCAAGCTGACATAATTAAGGTGTAAACATATCAGTATAGTTTGTTT
TGATTAAACTTTAGATGGACATAGAATAGGTAATCAAATTCATTGGATCGAAATAAGTATTCTTACTCTGAAATGAAAC
AAAATGGAATCTTCAGAAACATGGAAACAATGACCCAAACATCAGAGAGGCATTGAAGATAAATGGGAATATCACTGGG
AATAGTGTAATTGGAGCAGTGTTTTCCAAGCCCAATCCTCAGACCTCTCGAAAATGGAGATTGTAACACTAGATTGTGG
GCAGTCTATACCAAACCAACAGTACTGAATCAGAGTGGGTTATGGGAATGGCTAGAGCATTTGCAATTTTACAGCATAT
TCAGAAGATTTTTATGTACACTGAAGTTGAGACGTGCTGATTTAGCAAAGGTAACTGACAATTTGCCTCAATTCCCTCA
TCTGCAAAATGGGGATTATAAAAGTAGGGTTGTTGGAGGACTGAATGAGTACATATATGTATAGTGTTTAGGACAATGT
CTGCTGTTTTACAGTAAGTGCTCTATTGTTGGCTCTTGCCACTATTATTGTTTGTCAAGGGCTTGTCTGTGCTAGCTG
GAATGGAAACTTAAATGTTTCTAATTATTGCAACTGTCAGATTTCTTAAATATCGTAATGAAGCCAGCACAGTGAAGAG
CTGTCCTCAGTTTAATGTAACATTGGATCTATCCTAATAATTTTCTTAGTTTCCTATTGCATTTGTAACTATTTTATT
TAAATGTTTTATTTTTCCACAGGGTTACATTTATTTTTATTACTTCAGAAATATTAGATGTCATTCTGAAATTGTGGCTG
TGCCTTTATCTTGCATGTGGAATTCAATTTTTTATATTCTTTACAAACAGTATTTATAAGAAATAAAGATAAGGTTACA
GTGAGTTGTAGTATGAGATGGTAATTTACATGGGGTGCTCCATGTGCTTAGCTTTTCTCTGAAGTTATGCATCCCCACA
GCAAGGGAAATATTTGCATTTCTGAGAGTGAGAATTTATGTTCATCCTCTACTAGGAATGGTGGCAGCTTTTCCAGGTC
AAGGCCCTGCAGATGCCTGATGGTCATGGTAAATGAAGGCTGGATGCAGGGAAGGCAGCAAAATGAGAAAATCTCCTGG
GATCAATTAATGGGAGTCATCTGAGAGAGAATAAAGGCAGGAGAACATTTTCTTCTAGTCAGGAATTCGCATCAGTTTT
GCCTGGTAATGGGTTTCATGAAAGCCAAGATGAAAGGGTTTTATCCCTAAGGAAAAAAGGGCTCTCCTCACATCCTCTT
TCTGTGCTCTTTTATCAATGACTAATAATAACATGCTTGCATCCATGACAATCTTTCAGAAAACTGATGCAAAAACAAG
TCCAAAATTAGAGTGTACAGCTGTCGTGATTTCCTGGAGTTTCTGGTGTGTGCTTAGTAGGCACACAGTTTGAGTTACA
TGGCTTCATTATATGATTACACACTACTTTGTTGCCTCATTGGTGGTTAAGGTGATTTTAAACTTTTCAGTACCCAAAA
GCAGTGTCCTGGAACATACCAATGAAGACGGAGAATTGTTTCAGTCCCAGAGATATCCCAAGCAAATACAGCAGTGAAC
TCAATGGATATTTGTGAAATGAATAAATAAATGAATGAATGAGTACTACTGTGAATATTCTTGTCATGTTTGCTTGTTC
TCATTTGGAGAGTTTCTTTGAGGTCCGTGACCAGAGGTTGAATTGCTGGATCTTAAAGTAAGAGGATTACCAACTTCCC
TATCGATGCTCAATTCCTCTCCACAATGGCTATACTAGTTTACTGTCTGGCAATCGGTGTATGAGGGTTACCTGTTTA
TCACATTGTTGTAACATTTGATTTTGTCAGATGTCAGGTTCTAACTGAGGTCCAAGGGGAGTTGGTGGGCAAGTGGCGG
GTAGCTGGAAAAACACGTGAGGAACTGTAGACAGTTCAACATGGATTTACTCTCTCTCTGGCCATGAGCCATGAGCGC
AAGATGTATGTACAGCGTCAGCAGCGTAGTTGTACCTTTTACAGACAATAGTGGCTCCAAGCCAAGCACAAGCTTACAT
GGGTGATCACCTAATGTGCCTCACGTGGCGTGGTACATAATGTGCAGAGTTGTGAGCCTGTGCTCCAAACTCACTGAG
TCATGCTGGACCGGATGTCTGCTTCGGCCTATTTTTGAGAGCAGCACATCCATTTTCCTTACACTCCACCCTCAATGCC
AAAGGAGACACAGGCCTTGGCACACACAGGTCTAAGACACAGGCCTTATACGTACACTCTGGGGACAAAGGCCCTGGACA
CACAGGTCTGACACATAGGCCTTAAATTCTACTCCCTAGGCTGAAGGAGTCTTTTAAATGGAGAAACATGCCCACAGGG
TGGAACCCCAGACCCAGAGGCCACAGCAGTAATACAAGGAGCAACAACTCCAGGTTATGACGGGCAAACACCCCATGAT
GATGTTACCCGAATTTACTTTATGCATTAAGCCAGGTTTTTATTTCCCTACCTTTAGGGGCATTGGGGCATGCAACAAC
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Fig. 6.1193.

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AGGTTACCATCCGTTTCCATCCTGGTCATAGGAGGTCATCCTTCCTCCCATAGGTCTTGCCACATGGCCTAGCCCCACA
TGGGCCAGTGGCCAACTAGCCACTTCTGTATTTTCCAGGTGCCTAACCACAAGGTTAAGCCTCGATAGACCACACAGCT
ATTGGTGCAGATTATCATATGTGTCACCTCTTTGGTGATCACCATTCATATTGCTCTGACTTCAGCCCATTGACTACTT
TGTCCATACCCGGTATGAAACCATATGGAGTCAGTACTAGGCTGGACTGTGAGCAGTCCAGGCAGTAGCAGCACCCCAG
CTAGACCCATCTGTGTACCGTGCCCCATCGGGCATAGGGGGGGATGCCCTTCCTTAAATGGTGAAGGCTCAGCATGTAG
GGGTGCTTCAGGCCCCATGTCCTTAGGCCCCATGGCCTTATCTTGCATTAGGACTGCTGGTCTCAAGACCTCTTGCAAC
TCTGCTGCTAAGGGACTTGTACTCAGCGTACTCTGTTGCTTCAAGTAGGTGCCCCACTTTGCTAAAGTGGATGTCTGCA
CTGTCCCAGTCCGGGGGGTTGTTATCAATGAACACATCCATCCTGCTATCAGGTAACTCGTCTACACGACAACTGTAGC
CTGTCCTGCCATGCTCTCATGAGCCCGAAGGGCAGCATATGCAGTTACTAACTGCTTCTCTATCAGTGAATACTGGAGC
TCAGCTTCTTTCCATAGTTGGGACCAAAAGCCTACTGGTGTTCTCAAGCACTCCATGCTCTGCCACAGGCCCCAGCCAA
AACCATCTGTGGTCACATGCACATCCAACTCAAATGAGCACCCTTGGTCAACTACCCATAGGGCTTGTGCCTGCTGAAT
AGCCTATTTAGCTGCCAGGAAGTCAGTCTCAGCCACACTATCTTAATTCTAGGCAAGAGGAGCATTGCCGCTTCTAAAT
CTGCAAGAGAATCAGAGGTTAACATAATATTATCAATAAGACCATGACATATGATGGGGCTATGCATATATCCCTGCAG
CAACACTATGAAAGTCCACTGTCACCTTCCCGTGAAGGCGAACTGTTCCTGGCTCTCTAGAGCAATGTTAATTGAAAAT
GCATTAATCAAGTCCACCACATAGTGGCACTGTCCAAATTCCATCATCAAGCGGTCCATCAAATCTGTAATAGATGGGA
TGGCTGTCAGGCCATGTAAAACATCCACCCCCAGAATATATCAGCGCTGGTGTTACCAGTGCCAGCACTTGCTGTATG
TTGGTGGAGGACCAGTGGATTGCTAATTTCACATGTGGCCTCTATTTGTCTGGTGTCCCCCCAGGCCAGGCACCTCAGC
CAGTTCCCTAATCAAACAGAAAAAGCTCAACATTTCCACCTGGCTGCAGCAAGTAGTCTTTGAGTTGAAGCACCTGAGT
GGGACCAGGTCATACAGCAATGTCCTCCTTCCCCTTCTGCATTTCCTGGAATTGCTGCTCTTGAGACAGTTATCTCCAC
AAAGTTAARAGTACTTCATTGGGCTGCTTATCGATTTTCTCTCAGTCAACCCTGGCCAAAGTCAAATCTATCCACATCT
GTGAGTGGGTCACTTGTTGGGGCCCCCTTTTCTTCCATGATGGGGAGGCTCTGCAGGTGGGGCATCTTCCCCTTTTTTA
CAGTGCAGACCCAGACCAAGCAGGGGTCTCTGGCTGAGATGACGGACCCAGGCCTGCATTCACAACAGCCTCTAACTCC
CTTTCCAACCCTATGCCAGGCCTTCAGGCACCCCACCTGCACCTGGAGATCCCCATTCATGGCAGCCTCTAACTCTTTT
TCTAAGCTGTGTAGCTGGGCCTCCAGGCACCCTGCCTGTGCCCAAAAGGCCCTTTCCTGCACTGCATCCCTCAGGGATT
GGGAGTGTACTTCTTGTAGCACAGAAAAAATGCCCATCCAACTCTGCTGTCAAAGGCTCATTCCTTCTCGGTGCTCTGC
ACTTCCAGCTGCTTCAGTGCTTTCTCCGTGCTCGTGGGGTACCCATCTACTGCTGGCCAGGTTTCCAACAGAGTTCACC
CTTGCAGCACAGCTGTGACCAGGTACCACAACCCATGTCGTGGCCACATTGCCAACCCAGAATCAGCAGGGACCAAAGG
CTCGCCCACCTTGGGATCCTGTTCGTGATGCCAATTGTCAGGTTCTAACTGAGGTCTGAGGGGAGTCAGTGGGTGAGTG
GTGGGTAGCTGGAAAAACACTAGAGGAATCATGCACAGTTTCAACGTGCCTTTACTGTCTGAGTGTGAGCCGTAGGTGC
AAACCATAGGTACAGTGTCAGTCCGGTAGTTATACCTTTTACAGACAATAGTGGCTCTGAGCCAGTTACAAGCTCATGT
GGGTGATCACCTAATGCGCCTTACGTGGTGTAGTTACATAATGTGCAGAATTGTGCACCTGCACTCCAAACTTGCTGAG
TCATGCTGGACCTGATGTCTGCCTCAGCCTATTGACTGCAGCGCATACATTTTCCTTAAATCAGATTTTTAAAATTTTT
GCCTGTCAGATGAGGTATGTCTGTCACTATTGTTTTAATTATTTTTTCCTAATTGCTAGCAAAGTTGCCTATCTTCTCA
AATGTTCACTTATTGTTTTTTTTCCTGTGAGTTCTTGCATCCAGTTTGAACAGTACTATTTAACTTTGTTTTAATGCTG
TCAAATTCCTAAAATAGTTGCTTATGTCACAGAAGTTCTAACCTCAGAATGATGATATCCATGCCAAAGCAGTTGAAAT
TTAAATTCTTAGATAAGTAACTTTAAATATTCCAGTGTTATAGTAAAACATTTATACTGGACTATTCACTCAAAAATTC
TTTAAACAGTTGTCAACCTTATTTATTTCATTATAATAATTGTAACTTTAAATGTGAGATATGATAACCACATCTCTGA
AATGTGACAACCTTGTCCACCAATGTTATTATGCCTGAAACATAAATCTTGGGCCCCTGCTCAGAACCTTTGCCTTCTA
GTTTCAGTAATTATGAAATTAATTTTGTGTTTGGTGTTTTGCAAATTAAACTTACCCTATTAACCCTATAGCGTATATA
CATTATAGATMTATTATTATAATTATTATATTTTTAAAAATAGCTTTATGCTCATTGGGCAGAATCTGTATCAGCACAT
TTTTTGGCAGAATAGATTCAGTAGACTAATAACTCTGTTATAAATCCCTGGTAGCAATGTTGGGTAAATTCAGTGGACT
AATAAATCTGTTATAAATCCCTGGTAACAATGGTGGGGTTTTAATGAGTAACATAAAGAACTTAGAATAAAACAACTTA
AATATATATATATATATATATATATATGAATAATATTAACCTTTATTCTTATATTTGTATAATGTAGTTATCTGATT
TGCAGAGGGAGAGAAAGAGACAGACAAATGGATAGACAGACAGAACGAGATCATTTAGACCATAAGGTTAGAAAAAATAT
TATGAGACTATGGAAAGGTAATGAATATGGTAGAGAGAGATGGAGCTGAAGATTATAATTCTTTACTTATGGACTGCTC
CAGGATAACTTTGTTTGATGTTATTTTAGCCTTCTGATATCAGTTTATATACTCTAAAACGAGTAGAAAAGAAGCATCA
GTTTGTATAAATATTCTATTTAAATATTGTCAAAGCAGGTCCATGCATCAGAAGTCAAATTAAAAACTCACTGGGGAAAA
CTTTGAAAAGGCCTGAAGGAAATGTACTTGATTTTTATAATGTAATTGGCAAAGGAAATTGTAGTCAAATATGAGAGCT
AATGAAAGAGTGAATGGATAAGTAAAATCCACAAATAAGCACAAATGTCATTGGGCTGTTTCCCTTTCCTTACCAAAGA
AAATTTCATGAGAGTTGCTAATGAATAAGATCTGAACATTATATAACCTTTATAAGCATTTTCCTCAACCATTTTTTTC
TGGTTGAGATGTCAACAAGAAGTAATATATCATAATATACAAAAGAAGATGCATAGTGTATTAATAATATGCTACCAAT
TAAAAATCGCTGGAATAATTTGGCATTGGAAATGATGAAGGCATAAAGAGCAGATCTTGTATTAGACAAAAACTAGGAA
GTTATAGTTAGGTTGTAGTAAATGATGAACAATCCATTTTGATTGTGATTCCCAACTAGCTTTTAGGCAGAGCCTCAAC
CACAGAAACTCAATCCTAGTGGATAAAAAATATGCAGACAATTTGAAGGGAGTGAAGAGAGCAGAAGAAAGTATGATGA
AAGAATTGAAAGATTATGCAACAGAGGAGTATTTACAGCCTGGCTAGATAAATGAATGGATATATTATTTTTTTTTAATT
TTTTTAGCTAATTTACATTGTTAATTTTTATTTAACTATTATTTTTAAAAGAAGATAAATACTGCAGTGGAAAGAGACT
TAAGGGATTATACTAAGGGCAATTATGAGAACTCTTGGGACAAAATAATGGTCTTATATCAACAAAAATTCCCTGGAAG
TGTGATATGTCAGCTTGCAGAAAATTTTCCCAATGTAGTGATAAGAATTCTCTGAAGACATAGGCAGATTGAAAAGACA
TGAATAAGAAACAATGTGAGATACATTTCCATACTTACTGCAGAGGTAAAGCAGAATGGAATTTGTATCTTTTCCTCTG
CAGGTCCTATTAGAGAAGACAATAGAGAACCCTCTAAGAGGTGATTGTCAAATTGGTTAATATGCTGTGGTTTGGAGTG
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Fig. 6.194

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CCTGCATTGTGAACAAGGGCACATTCATTCAACTTTCCACATCTTCCTTTCCCTGTAAAATGTACATGGAGTTATGGTA
CCTTATTAGGCTATTGTTAGTATCACATATAAAACCATGTAAAATTCCTACCTTATGCCTGGTTCAGTCAGTGCTCCTC
AGGTGGTAGCTATTGGTTAACCCTATTCTTTATAACATAATTGAAATTAGGTTATATGACTTTTAAATATCCAAACAGT
CAGAATAGAAATATTGATGAGAAATTTTGCTTCATCTCAAAAACAGTGTTAGAACTACACCAATGGAGTATTTTTCTCC
TAAAAGGTTAATCAGGATATGACATTTATAGGATTTACAATCACAATCCTGATAACTGTGAAATATAATATCAGACTGT
TTCTTACTATTTTATTTTTAACATTGACATTAAGTTAAATAATATATTTTGTTACTGTAGCCTAGGATTTTATTTTCCC
TGTTATGAGAACAAGGATAATTATTTTACAAATGAAATTTTAAGGGATTAGAGTGCCATAGACATGCTCATTGCATTAT
TAATGTGCAGAATACTGGAGTTCTGCCATCTTCATGAATCCCCACATTACATTTTGGATAAAGAATAAGTTCTGTATAT
AAATGTAGGCTTCAGAAGCTTTTGTTGATTCTTTCACCATATTTATACAAAGGCTTTCTTGCTTTCCTGCCTCTCATG
CTAAGTACAGGCCCTTCCTGTACTTTCGGCTAAACGAGATGGCCTTTCATGTATAAAACTCAGCTGAAAAATTGACTTC
TTCATAAAACCATTCCTGTTTCATCCCTGACTCAAGGTCCTGACTTGAATTCTTCCGACTTCCCTGGGCACTGAGCCAG
CATAGTTCTGGTTCGTTGTWTAATTGTTTATATCCTTGTAGCATATTCAGATGCACATAGTCACCATGTCTCACCCAGA
ATCAGAATCTCTCAAGGAAAGAAAGCATGTCCTCTCTTTCCCTAATAATCCCCAAAGCTCTCAATACCATGCTGTGCCC
ACAGAAGGGAATCAGTTAAATCTGCTGCAATTGATTGGAAACTTCTTTTCCCCCAGATTTTCCTTAGGTGGTCTCCTGC
AGAGTTCTGTCTAAAGTAATGGAGACTTGGGATTTGTATTCTCATTATGCTAATGGTTATTACTTCCTTTATTTTTGAA
AACTGGTTGTAGGATCTAAGCTAACCATGCTATTTTCTGCATACCACCCAGCGATTCTCATTTAGCAACTGCCTTCAAA
TCGTCTACTCCCTTTGGTCTCCTCCTCCCCTCAGTAGGAGAAGGATGAGAGGAAGTTGGAATATTTACACTGAGATGAG
ATCCTTGAGCACTTGAGCCCTGAGGCTGCCTCTGGACTAACGTTTCTGTTCAGCTGTCCCCAGGTTTTTCAACAAGAGC
TGTCAGAAACAAGTTTGTGACTAAAGAGCAGCTTCATCTGTAACTTCTGTTTCTTGCTACTCCCTGCTGTGTTTCTGGC
TATCTGGAAGCTTCTCAGCAGGGTAGCAAGTTGTTGGCGCCACTAACACCTTTCCTCTTTCAAATTCATATTCTTCCTT
GGGAGGTGAGTTTGCATTTCAGAAAATTCTATTTTAGTGAAACCACCCAGGAATCAGTGTCAGTTGGCTTTCAGCTGTG
AAATAACTGCAGAGACTTTGTTACAGCTAAGGGGGTGCGATTCTTTTGGAGAGTTTAGATTTTCTGTTTATAGAGAAGA
GTTCTTAGGAATTTTATGCTTAGCTGAAAGTATTAAACACTTTTCCTTATTTCCTCAACATGAATTCTTTTTCCCGGGG
CTGCAGGGGAAAGGGCTCTGATCCTGGTTCAGTCTCTAGCTTGATCATTTTAGTCGAGTTCCTTTACTTCCATGCAACT
CTGTTTCCTCAAGTATAAAACTATTAGTTGAGTGGGTAGAAGAAGTAGATGATCTTTAAAGCACTTTTTAAGTCTAAAA
TGTTATGATTCTGCTATCAAATTCACAGCTTCTCAACATCAGATAAGGGTTGGCATGAGTGTTGCTGAAAATATATTTG
GGTTGGAGGAAGGGATATCCTCGATTAAAAAAAAAAAAAAAAGCCAGATGAGAAATTAAGACTTTTCAGCCAATGCTATT
GACATAAACTCAGGGTGACTTTCACGTCCTAAGTAGAAGTGGAACGTTCATTAATTAAAGCTTAGGTAATACCTCTTTA
TCAAAATTAATAATTTATGTTCAAATTAATCATCATGAATTGACATAGCTAATTTGACCCTTCATGGTTATCAGAGTCT
TTTTGGTGAATATCATAGTCTACATTAATTGAAAGAGGATAAGGTACATAGGTGTCCTCTCCCACAACTAAGCCATCAT
GTCTAATGTAGTAATGAAAGCAGATTTTGGACTGAATTTTGTTGACTGGCAAGCTTTTGTTACCAAGGAGCCACAACTA
TCATAAAGCCTATTCTCATAAGCTCCATAGACTCCCAGCTTTCTGTCCCTTAGACATTGTGATAAGCGTCTTACATGGA
AGATCATTTTTTATTATGTCTGTTTGATTCTTCTCTCTTTCTTCCTTATTAGTCTAGCTAGTAGTAGTCTATCTATTAATTT
TTTCAAAAAATCAGCTCCTGTATTCCTTGATTTTTCAAAGGGCTTTTCATGTCTATCTCCTTCAGTTCTGTTCTGGATC
TTGTCTTCTACTAGCTGTGGGGTTTGTTTGAGAGGACATGAACAGACACTTCTCAAAAGAAGACATTCATGCAGCCAAC
AAACATGAAAAAAAGCTCAACATCACTGATCATTTGAGAAATGCAAATCAAAACCACAATGAGATACCATCTCACACC
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TGCTGGTGGGAATGTAAATTAGTTCAACCATTATGGAAGACTGTATGGCGATTCCTCAAAGATCTAGAACCAGAAATAG
GATTTGACCCAACAATCACATTACTGAGTATATACTCAAAGGAATATAAATCATTCTGTTACAAAGATACATACACAGG
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GAATGTTCTCACTTATAAATGGGAGCTGAACAATGAGATCACATGGACACAGGGAGGGGAACAACACACACTGGGGCCT
GTCAGGGAGTGGGGTTTAGTGAGGGAAAGTATTAGGAAAAGTAGCTAATGCATGCTGGTCTTAATACCTAGGTGATGGG
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AAAAACAAAAAAAATAAAAACCTAAAAAAAAATCTTATTTCAAAAACAGGCTATGGGCTAGATGTGGCCTGAGGGCCATA
GTTTGTTAAGGCCTGGGACTAGACCAACATATGCATGTGACCATCTTGTGGATGAGTTTCCACAAGACTGAGAGCTCCA
TAAAGGCAGAGACTGTATTTTCTCATTTTTTATTCCCTCAGTGCCAAGAAAAACAGTAATTCAATAAATGTTTGTTGC
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CATTTTTACTTGAAGATATTTATATTGAAATCTCTGGTTAGTGATGTCTCACTTCTGTGTACAGCTAAGAAGACGTACA
GTTTTTAAAATAATGTTACTAACTGTAACAAAAACTATTTATCAAGAAATATAAAAGAAATTCTTTAACAAGGTTGAG
AGGTACTTCATGCATTAAGTTTCTGCTATCTTGCTGATGTTCTGCTATAAAACCTTACAGACACTATGTCTGTATTAC
TGGTTTCATTTGAAATTTTGCCTTATGATTAATCTAATTTGGTTTCATTGTCCATAATAAAAAGCAATTGAGCATCACT
GATGTGSATACCATTTTCTTTAGGTTTTAAGAAACCACTCTAATATTTTTTCAGGGCCATTATTTTATCAAATATGTA
TATATGTGTGCATAAGGAGARGGAGCTCGGAAAAGGATTTATATTTCCTTATAGTCAATTTTATGTTCTTTCTACCCTA
CCACTAGCTCCACCATATTGAAAATATCTCTATAAATATGGGTTATGTCCTATAAGCAAAGGATACATTCTAGAATTCA
TTTCTCTCTAAACCATGAAGCATCATCCTTAAGCAAGATGCTAAACCTGAAACCTCTGTAGAGCACATTTGGGTAGACT
TATGTTCTCATTCTTGCCTAGAAGAGAGATATTTCTAGTTTTCTTATTTGCTAACCTTATAATTTGAGCACAGAATGTC
AGATTTGTTTCAGCCCTTCGATTTAATCACATCATGTCTGATATCCTAGCATTTAATTACCCAAATTCCCAGTGTTGTT
CAAGAAGGTAGGTCTGTGGTGGGTTAGCCTTAAGCTAGTGGCTGAAAAGGTCTTGATTTGCCCCCACATCTAACCTAGT
CACTTCCTGAGCTGAAACTCCCATATCACCTGGGGACAAGCGACCCTGAAATCCTCACTGGCCACAGCTTCTTCTGAGG
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Fig. 6.195

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GAAGCTGCAGGAAAAAGAACAAAAATGAGCTTTTGTGAAAGGATTAACTTGGGTGAAGAACATCCTCCATAACCAAATA
AATGGAACCTAGTAACCCACATGGCCAATCCCCAGGGCACTAGTGTCTTTGGGGATATCAGGGTGTGTATAGAATTTCG
TTTTTGTCATTCTTGAAAACATAAAAWAATCTCTGAAAGAGTACTAGTGGTCAAGGTACTAGTCTAGAGATGGACCAAA
CAATCATATTAAACCTAATTTAATCTCCAGAATTTATATTTTGAGATTGGTAGCACTACTATCTTCATTTTGTACTTTC
CCCAACTTCCTGCAGCTAGGATTCAAATACAGACCATCTAACTCCAGAGCACTGCCCTTTAACATTGTGCTATAATCCA
CCACTTTGCATAGTTGATCCTACAAGAGGATAAGTAGAGATCAAAGTAAGAAGTGATCAATGGATTACTATGTCAAGCA
TGATTCCCTCAAACTATTGGGAAGAATAAATACCATAACATGTATAGGGTGCTGTGTACAATTCCTGGCACAAAGTTAA
GTACATGATAAAATGGAACTATTAATATTAGTAACCCAGATAGGTTCTGGGCACATTAGCAGGAAAGGTCTTCTTAATT
TAAGTAAGGTGCTAAAAGCATCTAATTTTATTAGGATTGTTATGAAACAAAAACTAAATGTGCAAGAAAATATATTTAC
CGTAGCCTGGGGAAAATTGTCATGGTTTCTCTTTTCAAAGAATTCAATTTGGTAAGAAACAGCCTTCAATGGTCCATGA
AAAGTGAGAAGTGTAGGGAATAAGAGGCTCTTTCCTATGTTTGCATTTCAGGCTTGCCTTCTTACTTTTAAATTTATCT
TTACAATTGCCTTCCTGCTGGGTTTGTGTCTTCCTCAGTTTAGGGAAGGTGACAAGAAAAGTCCTGTTTGTGTGTAATT
GACATGAAAAATGGTAGGCTTTTAACTCAAGGAGGCTCCAGACAACAGTTTGGTTATTAAGGAAGGGGAGGACCTAGGG
GAACAATTGTTTCTGGCCTCTCTTCTTCTCAGGCCTGGAACAATCTTTCATTTACTATATTCTTGCCACAAGAGCACAG
TCAATATTAAATTCCAAAAAAAGAAAAATCCCTCACAGAAACAGCTGTGTTCAATATACAGCCAGTTTACTCTGGCGAA
TTGCTAGACATGGAACAGTTTTCATTTCTTTTTGTGTTTATCCCTGATAGTTGTCTTGTAAAATCTGCCTTTTGTAAAT
AAGGGAAGGCTGGTTTTAAACAGCTTTGACTAATATTGGTAGTTGGAGTATTCAGTATTACAGAGTTTTAGAGAACTAA
AATAAACCTGATGGAAACACACACATATTTCAAAGGAAACATTTTAAGGTGTTCTGGTTCCATTTTTTCCATTTTGTAT
GTAAGTTGGATTATGATACTTTTATGTCTACATTGTCTCTTAGTCAAAAATGTGAGAGACGCCATTCAAGTCTAGACTT
GGACCCTACTGAATGCCTTGTTCATGGACACCACACAATCTCGATGTAAATGTTTATTGCTGATCTGTACAAAAAGGGG
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GGGGAGATGAGAGTCCTCTGCTTTCAGTTTAATAAAGTAGGATATTTGTGTTTTTGTTTATATTGTTAAATACGACGGG
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GAGTCTTCACCTTCCACAACCAGCACTTCTATTCTCACTGTCTGAGTGTGACTTTCCATAATTGTGAAACTCCTTGGGC
TTATCCCTCACACTCATTCTTGAATTCTAAGGAATGGCATTTTCTCCATTGTGCTTACATTTGCTTTTCAGTATTAATT
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Fig. 6.[96

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GTTCTAGAGAAAAGCATTCATTCACTCACTCACTCATTCACTCATTTAACAAAACCTGTATGGGTATCTACAGTACTAT
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CATGATCAGAAAGTACTCTTCCTTGAATTTATTTTCTAGACTAGATCTATTTTGGGGTTTTCTTACCAGTGATTGTAAC
TATTGATGTGGTCTTTTTTCTGTTTTTTACTTCTCATATGTGTATCTCTTTCCATTAGTCCTTCATTCCTTCAACAGAT
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Fig. 6.197

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GAACTTAAAAAAAATAATACAAGTGACAAAACATGTGCAAGTTTGACTAAAGTATGAGACTGGAATAAATACCTTATAAA
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GTAATGTTTGGTAAAAGTCCTTTAGAAGTAGACTGTTATGTGTGTTACTAGTTATAATCAATTAATAACCTGTGATTTG
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CAAGACATTGGCTTTGTTCTGAAGCAGCTCCCACGCTCTTCCAGAAATCTCTATGCGGGACTCTGAATGTGGTCAAGAA
GAAGATGTACTGGATGCACATTCCCTATCAGGAGTCTCTTAATAGTCTCCCACCCAGTTACAACATATTGCTGTAATCC
CACACAACAGCTGAAACATCTTTTCTTCATTTCTTTTAATTCCTGTAGCATTTGATGTCTCCACCGTGTAATTTACATT
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TACGTGAGAGTAATATGAGGTGATGGGGTTTACTCTTAAAGAGATTACTAATAATGTTTATTTGGAAAAAGATGAAGAT
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CCTATGTCTTATTTCTTAACTAATTGCACTATCAATTCAAAAATGGAACAAAGGATATTCTACGTATCAGAACCTTTTT
TCCTATACATTAAGAAGAACTTTTCCCACATGAATAGGTAATATCACAGTCTAAAGCCAGAGGATGAAACCTATGAATT
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Fig. 6.198

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CTTCCTATCATATATTTTAACAAGAAACGTAAATATCTATGACCTACTTATAGCCAATTTATATTTTGCCCAGGTTGTT
TTGTTTCTAAACTTACCCCTCATATGGCTTAATAATGAAGGCCATAAATGTGCCTCTTTCCTATCTCACCCCTATGACT
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AGCTCTTCTTGTTGAATTGATCCCTTTACCATTACGTAATGGCCTTCTTTGTCTCTTTTGATCTTTGTTGGTTTAAAGT
CTGTTTTATCAGAGACTAGGATTGCAACCCCACCTTTTTTTTGTTTTCCATGTGCTTGGTAGATCTTCCTTCCTCCCTT
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CAATTTGCCAGTTAGCATCTTTTAATTGGAGCATTTAGCCCATTTACATTTAAGGTTAATATTGTTATGTGTGAATTTG
ATCCTGTCATTATGATGTTAGCTGGTTATTTTGCTCATTAGTTGATGCAGTCTCTTCCTAGCATCGATGGTCTTTACAA
TTTGGCATGTTTTTGCAGTGGTTGGTACTGGTTGTTCCTTTCCATGTTTAGCACTTCCTTCAGGAGCTCTTCTAGGCCT
GGTGGTGACAAAATCTCTCAGCATTTGCTTGTCTGTAAAGGATTTTATTTCTCCTTCACTTATGAAACTTAGTTTGGCT
GGATATGAAATTCTGGGTTGAAAATTCTTTAAGAATGTTGAATATTGGCCCCCACTCTCTTCTGGTTTGTAGAGTTTCT
GCCGAGGGATCAGCTGTTAGTCTGATGGGCTTCCCTTTGTGGGTAACCYGACCTTTCTCTCTGGCTGCCCTTAACATTT
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Fig. 6.(199)

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TTTCCTTCATTTCAACTTTAGTGAATCTGAAAATTATGTGTCTTGGAGTTGCTCTTCTCGAGGAGTATCTTTGTGGCAT
TCTACTAGAGGGTAATTTTCTTTTAGGGTGTTATAATTATTTTAAAAAATTGATTCATTGGAATATGTTATCAATGTCAA
AACATGAGATAACTTGATGATTATCTCTTTATGAATTTGAGGTGCTGAGTATTTCTTGTTTTTCAATTACAGCATTCTT
TCAAATAGCCAGTCTCATGTTTCTATTTCTCTCTTAGCTGCTTCTTTCTTTAATATTTTGTTGCTAATGAGAACCTCTA
CCAAAATGAGTAACCAAAGGGCTGAAGAAAGTTGAACTGTTAAATGGTGTTTGTTAATTGCTTCTTCAATTACAGAAGG
ATTTTATATGTTGAGTAACATGCCATTTGAAGATTTGACAATTCCATCCTCTCCTTGGTAACTCCCCAGTCATTTGGTC
TAGATTGATCCATCATCTTTCTCACTTAAGAGCATTTAGTTCTCACCTTCAAATAATCAGCAGATTAAAATAGTGGTAC
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CCTGTGTATATTTATTAAATATCAGTGACATTTCTTTGCTTATTCTTTCATTCACTCAACAGATATTATTGAACAGCTG
CTGTGTACTAGGCATTGTTCATTTTCCCAAATTCTAAAATTGTGATCATTTCTATTTTTAAAATGTATTATTTAACAAA
GTACTGGTAATGATATATATCTTTATTTCCCAGTGGGTTTTGGCAATATAGCATAAAGATCATGAAAGTGGGCTCTAGA
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AAGCTCATTTACTTCATCTTTACAATAGGTATAATAATAGTACTTACCTCATGTCCACTATCTAAAGAGTAAATGGGAA
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GCTGGAAGAAATGATCTTAAATCACAAAGGATTTAGTAAAGACCTACGTGAGCTGTGAAAGATGATTAAACTATGAAAT
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GGAATTATCATACATAGGTACAGTTCAGTGGTTAAAATTAGCAAATTAACATGGATAAAATGTTGTTATCTAATCTACA
GACTTTATTCTAAATTTCAATAATTGTCCCAATAATGTTCTGTGTAGCCAATGAAATTACAAAATCATGCTTTTCAATC
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TCTGTCTGGTGAGGATCAGCTTTCTAGCTCATAAATAGCTGTCTCCTTGCTGTGTTTTTACATGGCAGAAAGGAAGAGA
GAGTTCTCTGGGTCTCTTTTATAAGGGCATTAATCCCATTCATGAGGGCTCTGTCCCCATAATCTCATCACTTCCAAA
```

Fig. 6.200

206/375

AGGCCACACCTGTAAATACCATCATATTGCTGATTAAGTTTCAACATATGAATTTGGAGGCAACGTAAACATTCAGTCT
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CCATCTGCTGACCTCGTGAGCCACCCACCTTAGCCTCCCAAAGTGCTGGGATTACAGGCCTTAGCCACCGCACCTGGCC
CAAACTCATTCTTTTATAAGGAACCTACTCCTATGATAACAGATAAAGTAATCCATTCATGAAGGGAATGCTCTCATGA
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ACTTACAGAGAAGTATATGATAGGCTGTGTCAAAGTGGGAACAATGTAGACTAGGGAAATACAATGCTTCTCTTGGATG

Fig. 6.201

GGTCACACCTAGGAGGGGCCAAAGGGGACAACTCACTGGGTATTGGAATGATCTGGATCCCTGGATTACTTGGTTGGTG
CTGGGCTGATTCGGAAACCCTTTCTATTTTCAACTCTTCTGCTAAACATCATTATAGTAACATCAGTACACATCCTGCT
GTTACCAAGTGTCAGTGTTTGGTCAGTTTGAGTTTTACAGGCATATAGAACTGCCATTTTGTCATTTCTGTCTACATTG
TACAAAAAAGTAATTTAACTGAGCTTTATAACTTATGATTTGGAGAACTCCACAGCTCCCGTTGTTCTTTCTCAAAAAA
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ATTAGTGTGACAAGAGTTAATAAAATGATTAATTAAAAAGAGCCTTAAACGTCTACTTAGAAAACACTAGATAAATGCT
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GACTGCAAAATGTCAGAGAAACATTTTAATATGTTCCCCCCAGCATTTGCCTTTCTGTACATATGTCTTAGAATTATAA
TGCCTACATTTTAACTATGGTTTTCTGTGGGTATATATACAAATAGATAGCAACTGATTAAAAAAAAAGATCTCAACTT
TTTTTTTTCAATTCACAAGATTGGAGTATTTGGAGATAGGGCTGTTTTTTCTCTTTTTTTCCTTTTAAAGCCATCCACA
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ATGCTCTGTAAAATTAGAAAATCCTTCAGCTTTTAGAAGCTCTCTGTTGGTTTATTAGTTGATCACAAATTAATATGTC
CCTTTGGTTTAATCTGTATCATAAAAACAAAGTTGACTGTTCCCAAACATGTGCTTGGATAAGAGAAAGCTGTTAATAA
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TTAGACATACCAAGGTCAATGCTAAATGTAAATGTATTTCTAAGAAAACTCTAAGTATGCAACCATATGGATTGATTA
AAACTAGTTACTTAAAACCTCTTATGACTGTATTTTTCTTGTTTTTGAAAATAAATGCAGTTTGCACTCTCCTTGCTT
AGAACTTACGTATTCTATTTCACAAAAGTGCATGCTTGTGTTATTAAATGTGTGTGTGTGTGTGTGTRTATACATAT
ACATATATCTTGATCCCTAATCTCAGTTAGCTCCAAAGGTGTTCTAAATATATAAATGTTATAGGTCACAGTGTGATCT
CTTAACACTATATTTTTTGGTTGAGTGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGCGGCTGAGGYGGAAGGAT
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ACTTGCTTGGAAAACTGGGTCCTAGTCAATGAGCTATGTCTTAAGGAATGGAAATACTGGCAAATGTGGTAAAGTTTAC
ATAGCCATTTTCTGCAAACCAAGAAGATAAATTGCATTCTGCCTAGTCTTAGGCAAACAGTTGGGCCATTTACTGTTCC
ATCAAAAAAAGGATTGTCAGATCCCCAAAAGCACAAGGATGCATATAGAGTGTCCATTTAAACTTCCTGATCAAAGATA

Fig. 6.202

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TACACTCGTGAAGGTGGAGTGGAAGACTTCTTTATAGGAGTATGATTCATGTTTATAAAATTGGAGACACTTAGAAAGT
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Fig. 6.205

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Fig. 6.204

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Fig. 6.205

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CTCCTCATTTATTGGACCAATAGTTTGGGAGGAACCAGTCATGACCTTCCTGATACAAATCAACACCTACAGATAGGAT
GGGAGGCAATTGTGCTAACAAAGTACCTCAAACCACAAAGTCTGTCAGTAAACTGATGCTTTTGTCAAGGATGAATGAC
CAGGGGCAGGTAATAGGTGAGCAACTCTCAACTCTTTTGTATATGGTACTATAGTCTGGAACTAGCAAGTACTGAAAAA
CGCTAGATGATAAAAGTCATTGTTATTTTATTCTTCCCTCTCCCTTCCTCCCCTCCCCTGTGCTCCCTTTCCTCTTCCC
ATTTTATTTATTTATTTGAGACTTGGTCTGGCTCTGTTGCCCAAGCTGAGTTCAGTAGCAGTATCTCAGCTCACTGCAA
```

Fig. 6.206

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CCTCCGCCTCATGGGCTTAAGCCATTCTCACACCTCAGCCTCCAGAGTAGCTGGGAATACAAGTGCATGGCACCATGCC
TGGCTAATTTTTACATATTTTGTAGAGACGGTGTTCCACCAGGTTGTGCAGGCTGGGCTTGAACTCCTGGGCTTAAGGG
ATCTGCAGGCCTCACCCTCCCAAAGTGCTAGGATTATAGGGGTGAGCCACCACACCTGGCCTCCCCTCCCTTTTTCCCC
TCCCCTCCCACCCTTCTCCTCTCCCCTTCTCTCTCTTCCCTTCTTCTTCTTTCCCCCTTTTCCTCTTCCTTCTTCCCTC
CTالسCTCTTTCCCTTTCCACTCTTTTCTCCTTCCCCACTCATAAATAGATATTATAATGAATTAATTTAGAATTATAGTTA
AGCATACATTTGAAGTAATTGTTCCAATTTCATAATTTTGAAGTATTTTCTGAGAATAAACTGGGCAAATGCAGAATTG
GGACAAATCCTATGTGCAATAATTGCTAATAGGAAGTGTTCTGAAGTATGAATTCTCTCCTCCTTTCTTGTTTGACTTG
TCACTGAATCTCCAGTCCTACAGAGTACTATGTCCTGCTTATTGTTATTTATACCACACCCCACTTCTACGTATAAAC
ATCACTTTCACTACGGTGGATTCAAATGATCTCTTAGGAATTTAGTTACATTACAGTCTCACATAAAATTACTGCCCTT
AAAAACATTTGTTTGCTGGGCAGGGAGTGGCGAAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGC
GGGCGCCTGTAGTCCCAGCTACTCTGGAGGCTAAGGCATAATTGCTTTAACCTGGGAGGTGCAGCTTGCAGTGAGCAGA
GATTGTGCCACTGCACTCCAGCCTTGGCAACAGAGTGAAACTCTGTCTAAAAAAAAAAAAAAAAAATTTTTTTTTTTGCT
AACATTATTTGAAGAATAGTCAGTTCAGTATGCATCTATGTAGACCTAACCAATAGTTGTATTTTACAAGTTTCAGTTT
TGAAATGTTGGATGATATCTTTCAGTTTAAAAAATTAGTATTTCTATAAAGTGTCTTTTTTTGGATGGAAATGTTTCTG
GAATGTGACACTTAAATTTTAATTACTATTATTAAATATCAATGGATTTGTTTTGCATAACCAAACAGTTGGATAAGTT
CAGTTTATGTGCTGTGCAATACTAAGATATTTACTTGGCATGGAGAGAATCACTGGCTTACTAAATAAAAGAATTCAGC
ATTTTGTTTGTCAATCCTATGTTAATTGCATTTATATTTCTGACAGTTTCCTTGATGGAATTAAAAAAAAAAAAACATGC
AATAAGATCTGAATTGAGTGTTGAAATGAGTGTTTCCTGAGCTCCAATTAGTGAAAGTATTGAGATTTGAAGAATGGTT
GAGGAGACAAGGTTTTATAATTGCCCTTCTGGGAAAAAGAATGAGTAAACAATAAAGTCTTGAGATCTCTCAAACAAAT
ATACAGTCATAAGGAAAGTTTAAAAGCCACAGTGAAATGCACACCTCTTAATTATGTTAACATTGATATCTATTTTAAA·
TTGATATCAATATTAGCTGTGAAAGTTTCGTATATTTTGCAGGGACAAATTCTCTTAGTGTACTCCAAATGCTTATTGT
TACACATCCTGAGCACACAACGCAAACATATTGGGCAAGCAAAGAATCTAGGCTGATATGTGTGAATGCTTATGTGGCA
TTCTATCAAAGGAGATAGATGTACATAAGGGGAATTATGGAGAAGTGAAAATTTGTCTAAGGTTCATTTTTTCAGTAGC
TTAATTTTAATAGTAAACTCTTTTAAGGAATGAATGGCCACAGGCAGAGACTAATGGTGTACTTTCAGTGTTCTCAGTG
AGTGCTTCACAGATTAGGTTTCCAAGAGAAGAAGATTGCCTCTGAGGAAGAAGAGATGGGGTAGCAAGAGGCATATATG
AGACCGTTCTTGGGACCAACACCTATGGAGGGGAGGGAAGAAGGCAGAATTATGGGACCAGATAGAAGAAGTTGGTCTG
CAATGCAGTCTTGAGGAAGGCCTCAGCAGAGCCAATAGACAGTTCCGAAGCTGGCATGCCCTTGAGAGTTGTCCTAAAT
TCGGGTGAGAGGGTTAGGCCTTTATATCCTTGGTCACTTGATAGTAGATGCTGGAACAAAATGGTGCTCTTTAGCTAAG
GCAATTTACAGAGGGCTGACAGCTGAGAGCACTTGTAGAATCTAGGAAAATGAGTCTTTCATTCTTGAAGGGGAATCTT
CACATCATCCACTACAAATGGTGCTATATTTTGGAACCAGCAGACACTGAGAAATGCCAGGTGGATAGAATCCTTCCTT
CTTTTATTCTATCTTTTTTTCTTTCTTTCTGTCTCCTAATCTAGTGCTTCTCCAAAATACTTTTAAGAATTAGAATTA
GGCCATTAGTTATTATAAGGAAGGAAGGGAAATAATCATTTTCATAAAACTCAGCAATTCTTTTAATGTCAAGATATGG
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ATGTGACCTTCCCTGTCTATGTAAGCCTAGCATTCTGTCAGCCAAATAAAATTTTGGAAGGAAGGTCAGATAAAATTAT
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GTTTTCTGTATTAGAGGTTGAGAAAGAATGAAACAGTCTATTGATTTGAAAAGCTTTGCTCTCATTTAGCAATTATTAT
TATTATTATTATTATTATTATTATTATTATTGTTGAGACAGAGTCTCACTCTGTTGCCCAGGCTGGAGTG
CAGTGGCGCGATCTCGGCTCACTGCAAGCTCCGCCTCCTGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCT
GGGACTACAGGCTCCTGCCACCACGCCAGGCTAATTTTTTGTATTTTTAGTAGAGATGGGGTTTCACTATGTTGGCCA
GGATGGTCTCGATCTCCTGACCTCGTGATCCGCCCACCTCGGCCTCCCAAAGTGCTGAGATTACAGGCGTGAGCCACCG
CGCCCGGCCAACAATTATTTTTATAAAATAAAAGTTTATTAATGAATTTATACAAATAGCACTTTATAAAAACTACAAC
ACATTCATTTGGGCTGGGCTGTTGCCTGGTTAGTCACATTTTTTCTTCTTTATTTAGCTATTGCACAGCTTCTGAGGCA
ACCACAAAAACATCAAATTATGGAGAAGTGAGTGCATAGATATATGAAATCAACATTTCAAATTGGTAATAGAATGACC
TTACTTATTAAGTAGTGATCTTTTATCAAGCTGCTACAATAAAATCGACCATAACATTAAACATGGTAGATGTTACTAA
CCAGAAATCTTAGGTATTTAAAGTTATGTTTACTTATTTTTTTTAATAAGACTTGGAAGTGTCACTTAAATCACACTTA
AGAATGGATATTGGCTAAAGGCTGCTGAGTCTTTTAAGATTCCTGTGAATTTTTTTCAGATTGTTCCTCAGTCAATTCA
GGATACTTGTCATTGCTGGCTATACAGCAGAGTGCAGAGTTAGCCCTTGCAGACACACAAAGATAACTCAAGGCACTGA
TTTCTGCATCTTCAGCCTCCTCATTTCATTAACTATTAAAATTAATTCCCTGTAGAGATAATTTGCATCAATCAACAGA
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TTTACTAAAAGGAAAAGGTGTTTTAAATTGAACCACCCCTCTAATTTATTCATCTTAGTTCTGAAAACATGTAGGTAAG
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GTTTGCAATATTAGCCTGCCTGTATTTTTCATGTAAACCTTTTGTACATTGAAAACAAATTCAAAATAAAGAACGTTTG
TTTTCAGGCTCAGACCTTAAGAACTGATGGTCTTTTCTTTTACTTCTACACAAAAGTCTAAGCAGTTCTGAAGAAACAC
TACAGTGACATTGGGTCATTGCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGTTCACAAACTATCAACATTTTAACAAT
CTAATAGTTGATTGTTGTTTCCCAAATTGGTGATTTTGAATGATTATTTTATGTAGAATGGAACTGTGTCTTTTTCTTC
ATTCATGCAACAAACATTTCCTGATGGATACCAAGCAACGGTGACAGGTAAGCATGCCATCCTAGATCAGTGTTATATA
ACTCCCAAGCTTCAGTGAAGGCCTCATTTTTGTTATTACAAACTGCCTCTCTGGGACCTCATGAAGGTACTATTCCTGT
TTCGGGAATAGGTCTATCCATCCTTGTCTTTTTGTTTCCTGTCTTGATTCTACAATCTCCCCTTTGGCCATTACCATCT
CAAAATCCTGCTTCCCAAGGTAATCCGTCTAGCTTTTCTAATCTTCTGGCTTCCCATTACTCATTTCAATTCCTTCTTC
TGGCTCCCTGTTGCTTTCCTAACCAATTTCAATTACTTATCCTTATCTTGAAGGCCATTCACCACTCTGCCCTGCTGAC
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Fig. 6.207

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GTGTTTTTCTTATCACCCAAGATTCCTCCCCCGGCTCACACTTCTGCATGCAAGCACGTTCCCAAAGTATGAAAATGCT
TTGGATTTATATCATGCTGTTGCCTTGAAGAGTTTTATTCTCTTCCTCATATCTTCTCAGAGAAGAAAGTAATTTGGCT
GTGGTTCAAAATTCACCAAGGCAGTAAAATCTTGTGTTTTGTACACAACTTCCTTTCTAATGACCTCTCCCTTTCTTCA
CCTCACATTGGGCATTCACTCATAACTATTTAAGGGCCTTCTCTTAGGCGGCTGCCCTGTTTTCAGGTTGTGCCCTATG
TGGTCACAAGTGGCTATTCTTAATAAATCATAGAATCGTAGAATTTAAGTACTGACAGGGATTTCCTATATATAAGAAT
CCAACTTCCTACTCTGCAGAAATCCATCTCAGAACATTCTCAATGCTTAAAATTGCCTTTTCGGGAGAGAACATCAACT
CGTAAGACAAGCTCTTTCCTTGTTGCCTAGGACTCATTTTTAGAAAAATATTCTTTGTAATGAATTGTTTCCCTGCCAC
TTCCTCCCTTTGGTATGAGGCATGTTGCCAGAAAGATACAAAATAATTCTAATAATCTTTCTTAGCCTTGATAATGCAA
GAGAATACAGCAATAATTTCCTCCATTAAACCTTATTTTTTTTTTTTTTGAGGTTAGATGCCTAAATTACTTCAAGGA
TTCTTCTTGTGGAAGCATTTTTGAGAATTTTCTTGTCTTTCTGCACCTCTGATTTGGTAACTTGACCAGCAGACTTCAC
AAGAAGCTTGCTGTCAGTGTTAGTCCAAACACAACCTATCAGTTAGTGTGTTAGTCATTAATATTTAAGAGTGTTTTC
ATAACCTTTAAATTAATAATTAGTCATCTTTATTCTTTAATGACTACAGAAGCTCACATTCATAGTATTTTGGTAACTA
AGGTATCCATAGGCTCAAAAACTCTTCAAAATTATTGTGTAATGAAAATGTTAACCATATTTAAGAGAGTGACTTGGAA
AAAGGCCTTGTTTTTCAATCTCATATTTTGAAGAACTATTGAGATGTCACTGAATAGTATTTTTAGAATTTTTGAATTG
CTCACACATGAGCACTTGGGGAATTGGTCAGTGAATATATCTCCTGAGCACTTTGTTCCTTGAAATTATCAAATCCTTC
TTGGAATTTCTTTTTCTCTCTCGTGATGTGTGGGTGGGACTGGGACATTACCAACACAATTAGAACTTCATTTCTTT
TTCTTCTTAGTGAAATTTATTTTCTAAAAGGTTTGTGTGTTTCACTCTATTAGCAGTTCTGGAATCATCCAAGAGTCTA
AGTAGATGTAGCAGAGCTCTTATGGAAACTCTGGATATATACATAATCACACAGAGAATTTGTATTTAATTTTAGAGTT
ACATGTACCACTGGAATCACATTCATATTTCTATTACAGTGTAGTGATTCTGGGTTAAGAATCACTGATTTAGTTCTAC
CTCATTTTACATATACCTTTTCCTGCAAAGATATATAAAAATAAAATCATATGAATAAGTTATGTGTTAATAGTTCCA
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TGAACACATATATATAATTTTATGATACAACCTTTTCTTCTGAATACTTAAAGTGTTTTCACAGTTGGAAGTATCAAAA
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GGTAGAAGATACGGTTTAAGATGAATTTTAGTTATTTAAAGTGTGTCATAACCTGAACATTTTACAGATATATTTAAAC
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TAAAATGTACATATATGAATAATATATAGAGAAAGATAGGAAATATTACCATGAATTATACAGACCTCAGTTTATCTAA
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GATGAGTCTCTCTGTCACCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCTCACTGCAACCTCCACCTCCCGGGTTC
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TTTAGTAGAGACAGGGTTTCACCATGTTAGCCAGGATGGTCTCGATCTCCTGACCTCATGATCCGCCTGCCTTGGCCTC
CCAAAGTGCTGGAATTACAGGTGTGAGCTACCGCACCCGGCCTATTGTCTACAAATTTTATCACTTTTGGTAAGAAATG
CACAAAGCCTATCATGATGTCATTGCTAGTTTATATGTTTGTGAATTTTAAGCCAAACAAGCGTTCAAAACGTTTGCCA
CAAATCGAGGACCTAAAACCCAGTTTTATATATAAAGATATTTAAAAACATATTTCTGGAGAACTATGCATATACTACC
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AGTCCCTTAAAATGCTGAATATCACAATTTGCAGTTCGGCTAATACATTTATATCCATTTTATTACTTAGTTGTAATAT
AAAGGAAGTTACCTCTTCATATCCCAGGGAAACTATGGTAGTTGACAAGGAGTGGGTCCAGGCTTTATACCAACTGATG
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TTATTTAGGATGTAAAACTAAATCACACCAGATTATAAAATTAATAAAGCTGACAAATTCTACAAGGATAACAAAATTT
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CTCTAGTATAATTGATTGTAATCTGTCATTTTATTACCGATAGTTTAGAAAAGTTACATCAAGTTCTCAATTTTTGGG
GGTGATTTCATATACATTCTTAGGACTGTGACCAAACTTGGGAAATATCTCTATCAAATGTCTTTCATTTGTGAACTGT
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GAATATAATCACACCAAACTGAAACTAAATGAATCTTTAACTCAGTTTCTAATTAGCCAGATCCCAAAATGGCCCACAG
TCACCCCAGTGCTAACTAACCCAAGGGAAAAGTGTGATATAGGCAAAATCAGTACGTAGACATTGATCTTAAACTTCTG
CAGTTAAAATGTCTCACTCATGCAAAATTCTAAAAGCAAAGGAGCATGCCATCCCACCCCTCGAGCCTTTTCCAGTGCC
TTAGGAAGGAGCTTGTGCAAGTGAGGGCCCTGAAGCTTCACCCTTCCTAGCCTCACGGTAAATCCACCTCTGTGGTAG
ACAGAAACATTTCTAGACCACAGGAAATCTGTTTGCCTAAGGAAACACAGAAGCTGTCCTTACAGTTAAACAGAAATAG
TTCTATTTTTTTCCTAGAGTTCAGCACCCATTTCTCAAGGGGTATTTCTTAGAAGTTCATTTTATGAAGTCTCCTCCACA
AGTTCTTTTTGATAGCCAATAATTCAAATGTCATGCTACTTCTTTAAATCACTCCAGTCATTGAATAGCATAATCTTTT
CAGGGGGCAAACAGCTGGGCTCCAGTAGGCTTTAAATGTTCATTTGTTTTCCAATTTTTTGACTTGCATAGGAAGAAGT
AATCCCTTTCATGTGAAATATTCCCCTCGATTAATTTTAAAGAACCAATGGCATTGTCTGATAATGGGATGAAAGCCCA
ATTCACTGAACAGAATGTGCTATTTGTAACCTGGATTATCCTTTAGGTTTTTCGGCATAGTCCTCGAGAAGCTGAGAAT
CTGTCATTTTATTGATTAAAATACACGTACAGATACACACGTTTACATTAGAAATAAAAATGTTGTAAGCTCAAATAGG
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Fig. 6.208

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CAGGGTATTTCACCTGAAAGCCTGAAATAAATGTGATGAGAACCTATGAACTAAGTTCCAGTGTAAACAAGTGGGTTAA
ATTCTCATTATAGAAACTTCCAGTGAGCAATGCAGCATGACTGTGGGACCATAATTCAGGAACAATCTGCAGAGCAAAA
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TCTGACCTTCAGATCAGTTTAACTGTAGATCAATAATCCATTACTCAGACCAACACAGTACCAAAAAATCTCTTCAGCT
GGCTGCCAAGGTACTATTTTATCTTAAATAAGCTGGTTGAGAGCAGTCAATATAGATACATTTTTCCCACTGACAATTT
GCTGATTCAGAGAACATGCAACATCCAGCCACGAAATAGATAAAGCTCAGGCCTGCCCTGTAGAATATGGTCACCTGGC
TTTCCTGTTCTCCTACAAATGTCCTACTGGAAGAATAGCCCTTAATCCCTTAATGTTCATCTAAACCAAGGCTTGTTCT
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ACCTTCTACAAATGTTGGTATTATTGATATTGAGGGAGGGGGCAGACCCAGGTCTATGGCCTTATGTATTATTAGTGAA
TTACAATTTCTTAGAGTAATAGGCCAATGATTAAAGTCACATGTTAGGAAAACTTTAATCCACTAGGGAAAACTTCCAA
TATTTTTCAAAGTAATTTACTACATTTGGATGCAAATTATATAGGTGTTTTTGGTGGTATCCATACTTGCTTTCTTGTC
AACCTGAAGAGATGTAAATGTAAATCGATGCTAATTGTACCGTGCTTACACAAAGAGCTAATTTGAGTAATATCCTATC
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TACACAAATATATATCACCCCCAAAAGTTTCCTCGTGTCTTTGTCATTCCTTCCTCCAGCTTTTTCCCAGAAATTTCAC
CTTCCTCAGGCTGATCAACACTCAGCTGAAGACTCAAGAGGGGGCCTGTGCAGATGTCCCTGAGTTCCCTCTCTGGGCC
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ACTTTCAGGTCAGGCAGTGATCCCTCCTCCTTATGCTGGGACCTGGAAGCTCTCCAGCATGTACACTGGGGCAACCATA
GGCGTCATCTCATTGTATTCATTTTCTCTAATCACCATGCTAAGCTAACTGTTGCCTAAGGTCTGAAAACTGTTGTTTC
ATTCATTTTGTCCAGTTTTTCCATTCTTTCATGAGCAAGCATAAACCTGACTCCTTTGGGCAAGAAGCAGAAGTCCCTA
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GTAATTTTTTGTTATATTGATTTTACCTAAACAAGAGTTTATTAGAAGTATTTTGTTATACAGCTTATAACAAATAATT
GTACAAAAATTAGAAAAATCAGATGAACAAATTTTTTATAAGACTTCTCGTGGTTATAGAATGACTCTAACACCTTGTA
GTGTATTTTTTAGGATTTTGTTCTTAGTGCATGTGTTAGTCTGTTTTCATGCTGCTGATAAAGACATACCTGAGACTGG
GAAGAAAAAGAGGTTTAATTGGATTTACAGTTCCACATGGCCGGGGAGGCCTCAGAATCATGGTGGGAGGTGAAAGACA
CTTCTTACATGGTGGCGGCAAGAAAAAATGAGGAAGATGCAAAAGTGGAAACCCCTGATAAAACCATCAGATCTTGTGA
GACTTATTCACCACCACGAGAATAGTATAGGGGAAACTTCCCCCATGATTCAAATTATCTCCCACCGGGTGTCCCCCAC
AACACATGGAAATTATGGGAGTATAATTCAAGATGAGATTTGGGTGGGGACACAGAGTCAAACCGTATCAGTGTATATG
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CTGTGTAAATCTTTTTCAAAAAACAATAGACACTGCAAATATTGGGCATTCTTATGATGATGTTTATTCTTCACTGGGA
GCATTGATGGATTGATTGTTACTTTTCAATAACTTTTTCCATATTTGCTCTAGTTTTAAATTTGCAAATTTTAATTCAG
TATTGTTTATAATAAGACAAAAGCTCTTCTTTAAGGTTGGGGCATTAATGTTAAAAAAAAAAAAAGAACTGTTACATCA
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Fig. 6.204

AATGTACATCAAATGCAGTGACTGGACAACAACCAAAGAAACTTCCTGTGTAATCCCCATCCCATCACACACACACACA
CACACACACACACACACACACACACACACTATAGACACTATATTTAAAATTGGCAGGGGTGATATTATGAACTCCTG
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CCATTGACCATTTCTACTAGGATGCCTTGAAGGCACCTCAGACTCAACAAGTTCAATTTGAAATTCATTATGTACTCCC
CAGTTGTTCACGCTAGGAGCCTTCAGGCCACCCGTGACTTTTCTCTCTCCTTGAGTCTCTCCTTAGCTTCCCATGGATC
AGTCTCTGTACCATGTTGATTCTACCTTCTGAGTATCCTTTCTGCTCTCCCTCATCTGCACTTCTGTTACCACTGCCTG
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AATTAGCCAAAATATATGTGAAGAAGCTGTTCATCACAATATTGTTTATTATAGTAAAAAAAGGAAAAAAACCTTAATA
TCTCAAAAATGGATCAGTAATATCGAGACTATACAATAGTCATTACATTGGTATTATAGATGTATAATAATTTGGAA
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GCAGCAAGTCACCTTTTCTTTTTCCCCTTTTTTGATAGACTTGAGAGACCAAGGCAGCACACACACTCCTCCAACTA
GCTTTGCAATTTGCATACATTTCGATTCTGGTGGKTATTCATCATTTTTATAGAAATGCTTTATGAAATTCGATCTC
ATGGAGTGAGTTAGGAGTTTCTTTGTTTTTGCTTTATGATAACCCATTGCCTCAGTAAATATCTTAATTATTCCCAGA
AAAAAATAAACCCAACTGATTAGACCTAATCCCTTCTCAAATCACTTTACTTTCTTTGTCATTTCCTATCCATCCTCTC
TCTACACTCAGATGTCTTTGTTTTATTATGAAATATATTTGGCATGAGTAACAACATTAAGTAATATGAATCATTTTAT
TTGGTTAAATGTCTACACTCAAAGATTAGTGGAGAATTTGGAAAATATAACGAAATAATACTGGAACTTTTGATATTTC
CCTAGCTACTTGCCATATTCAAAAGATGTGTCTTTGAAGTGAAGAGCAGAATAGTACCTTATTATAGTCCATATTAAAT
CATATTTATGGCTTTCAACAGAAGTATTGAAAACCAGATTCAGTTGCTGCACCCATCAACTCATCATCTACATTAGGTA
TTTCTCCGAATGTTATCCCTTCCCTTGMCCCCAACCCCCCGACAGGCCCCAGTGTGTGATGTTCCCCTCCCTTTGCCCA
TATGTTCTCATTGTTCAACTCCCACTTATGAGTGAGAACATGCGGTGTTTGGTTTTCGGTTCCTGTGTTAGTTTGCTAA
GAATGATGGTTTCAAGCTTCATCCAAGTCCCTGCAAAGGACATGAACTCATTTTTTTTTTTTTATGTCTGCAAAGTATT
CCATGGTGTATATGTGCCACATTTTCTTCATCCAGTCTATCATTGATGGGTATTTTTGTTGGTTCCAAGTCTTTGCTAT
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CCAGTAATGGGATTGCTGGGTCAAATGGTATTTCTACTTCTAGATCCTTGAGAAATCGCCACACTGTCTTCCACGATGG
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GACTTTTTAATGATCGTCATTCTAACTGGTGTGAGATGGTATCTCATTGTAGTTTTGATTTGCATTTCTCTAATGACCA
GTGATGATGAGCTTTTTTCATATGCTTGTTCATATGCATAAATGTCTTCTTTTGAGAATTGTCTGTCCATATCCTTCGT
CTGCTTTTTGATGGGGTTGTTTGTTTCTTGTAAATTTGTTTAAGTTCCTTGTAGATTCTGGATATTAGACCTTTGTCAG
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TCCATCTTGAGTTAATTTTTGTATAAGGTGTAAGGAAGGGGTCCAGTTCAGTTTTCTGCATATGGCTAGCCAGTTTTC
CCAACAGCATTTATTAAATAGGGAATCCATTCCCCATTGCTTGTTTTTGTCAGGTTTGTCAAAGATCAGATGGTTGTAG
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TTGAGTTTTTATCCTGAGACTTTGCTGAAGTTGCTTATCAGCTTAAGGAGTTTTTGGGCTGAGACGATGGGGTTTTCTA
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TTGCCTGATTGCCCTGGCCAGAACTTCCAATACTGTGTTGAACAGGAGTGGTGAAAGAGGGCATCCTTGTCTTGTGCCA
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CATCTATTGAGTTGATCATGTGGTTTTTGTCATTGGTTTCATTTATGTGATGGGTTATGTTTATTGATTTGCATATGTT
GAACTAGCCTTGCATCCCAGGGATGAAGCCGACTTGATCGTGGTGGATAAGCTTTTTAATGCGTTGCTGGATTTGGTTT
ACCAGTATTTTATTGAGGATTTTCACATCGATGTTCATCAAGGATATTTGGCCTGAGATTTTCTTTTTTTGTTGTGTCT
CTGCCAGCTTTTGGTATCAGGATGATGCTGGCCTCATAAAACGAGTTAGGGAGGAGTCCCTCTTTTTCTATTGATTGGA
ATAGTTTCAGAAGGAACGGTACCAGCTCCTCTTTGTACCTCTGGTAGAATTTGGCTGTGAATTCATCTGGTCCTGGGCT
TTTTTTGGTTGGTAAGTTATTAATTACTGCCTCAATTTCAGAATTTGTTATTGGTCTATTCAGGGATTCCACTTCTTTC

Fig. 6.210

TGGTTTAGTCTTAGGAAGGTGTATGTGTCCAGGAATTTATCCATTTCTTCTAGATTTTCTAGTTTATTTGTGTAGAGGT
GTTTATAGTATTCTCTGGTGGTAGTTTGTATTTCTGTGGGATCAATGATGATATCCCCTTTATCATTTTTTATTTATKG
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TTGCACTGTGGTCTGAGAGACTGTTTGTTATGATTTCTGGTTTTTTGCATTTGCTGAGGAGTGTTTTATTTCCAATTAT
GTGGTCAATTTTAGAATAAGTGCAATGTGGTGCTGAGAAGAATGTATATTCTGTTGATTTGTGGTGGAGAGTTCTGTAG
ATGTCTATTAGGTCCACTTGGTCCAGAGCTTAGTTCAAGTCTTGAATATTCTTGTTAATTTCTGTCTCGTTCATCTGT
CTGATATTGACAGTGGGGTGTTAAAGTCTCCCACTAGTATTGTGTGGAAGTCTAAGTCTCTTTGTAGGTCTCTAGGAAC
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GCAGCAGTTGGACTTCTGTATATTCATTTCTGGCACTGGAGACTGCTTCTATTATAGAAGTTGTGACCTTGTCACTCAT
CAAGCAGATGGCATTGCTTGATTAGAGTCAGGCCATATTTAGAACATTTCTATAAAGCCATTCTCATTTGGGCAAACAT
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CCATATTTTCAGGAAGGCAGGTGTTGAGCTTATATTTTCAGAATATATTTCCAGCTTCATACACTCTTAAGAGAACATT

Fig. 6{211}

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GAAGCCTCTTTGATGAAGGTGAGGGTCTATAAACATGCTTGTATTCATTATAAGGGGATTGTGATTGTCCTCATAGAAA
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CTGGCCAATTTTTTGTATTTTTGTTTTTTTAGTAGAGACGGGGTTTCACCGTGTTAGCTAGGATGGTCTCAATCTCCTG
ATCTTGTGATCCRCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCGCCCAGTCATTGGTTTGT
AATGCCATAAAGAATCCATGAATAATATAGTCGTGTATTTATTTTTGAAAGAGAATGTTCTTTTAATAAAGCATATGTT
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Fig. 6.212

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TTCTAATTTACACTTGAGCAAACCTTTATTTTAAAGAAAAATTGAGAAATTTATGTTTCAGAGTTATGAGACACCGTCT
TCTTATCTAAGATATGAAGGATGCAGCAATAAATTATCCAGATGTTTTGGCTATAGTCTTTTTTTATTGTTGAGTAACA
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GAATCAAGGTCATCTCTCAAGATCATTACTGCCACTGTTGGAAGAATTCAGTTTCTTGCAATTATAGGATAGAAATCCC
TCTTCTTTTGCTAGCTGTTGGCTGTAGCCCCCTGTGACCTTCTAGAGGCCACTCTTGGATTCTTATCCCATTGGTCATC
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CTCTGCTTTTATAGGTTTTATAGGACTCATGTGATTAGATTAGACCCACCCTGATAATCTTATCTTAAGGTCAGCTGAT
TAGTAACCTTAATTGCATCTACAAAAATTCCTTTTTCCATGTAAAGTAATATAACCGTGGAGTAACACCAGGGCTGAGG
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GTATTGCTAATATACAACCTCTGGAATAGACCTGATCAGTTACCCAGTCTCTGGAAGAGGGTGGTAATTGAAAAACTAA
TAAGGGCAGGCCCTAGTCTAAGAAACTAAATCTAAGACAGCCACCTGAAGTGTGAAGATGGAAATTGCAGAGTTGAGTC
TGGAGTGTTTTATAGGCTTATAGCTCTAACTTGCCTAATTGAACTTTTACAATTGAACTTTTACAAAGAAAGTGGGGAT
TTATTTATACTCCTACTCTAGGGGGCCACAAAAAAAAAAAGAGGAAATGAGAGTATAGGAGATTTCTCTAGGTTATCATA
```

Fig. 6,212

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AGAAAGAAGTCTGACAATACAATCCTTGTTCCATTTATCTTTTTATAATAAACCACAAAATATTTAAGAGCTGTTGGAA
TTCTTTGTTTCTTCCCCATGCTGGCTATTTTGCCATTCTCTTCATCTCAATACTTTGCTGAGTAAAAGTCTTGAAACCA
AAAATATCCCTACAATTCATGACCTTGAGTGACTTCAAAATTCAGTTAGACAAAACAGACAGCTGAGTTCTGTGGTTCT
CAATCTTTGTACTTTTAAAAGTATTCATGCTTTGGTTCTACCCACAAAGATCCTGATTTCACTGGGGCTGAAGTGTTGA
AAGATTTTATAGCCACCAAATCACCCTAATGTGCAATCAAGGGTGAGAACCTTATTTTCTCATATCCCCCTTCCTTATA
TCCACTGATCTTGACTTCAGTTTTACCTTGGCAATTCACCTCCATGGCCACACTCTGAACTTTGTCATCAGCCAGAACT
GCTCCAACCAACCTCAAAATCTTAAACTCAAATATCCCACACTCTAAGCATAGTTTTCTTTCTTTCTAGCTCCTCTTAT
TACGTTAAAGACCTAATAGTCTTATTTCTCAACTGCTTTCTTGCTAACCCTTCATTGTTCTCCTCATAAACCCAAACAG
GAGATAACAAGCCAGGATTAATCCACCTGTGTGATCTCCCCATTTTTAACCCTTGTGTTTCCAGAGAAAAACACAACCA
CTTACACTGGTGCCACAGCAAGTTCATACTCTCCAGACCCAATTGGATGGAGCCTCAATACTGCCAAAATCCCATTCAT
TTCTCTAGTCAGCCTTGTGTCCTTTTTTCCCAATAAAAACTCTGTCTCTTGGTCACATGGACATTTCCATCCTATTTCT
GTTTGAGGTAGAAATCTGCTCCTGTACCTTGAGTCCCACCTGCTTCTGCCTTTTCAGTTGACTTGCTCCTTCACCTGCC
ACTTGTCTTGGATCACCAGCTTTAGCCATGGACTAAGTCTTTAACATGGGYATTTAAACATACTTAAAACACTTCCTTC
AAAAAGCAAAGCATAACAGTGCTAAAGCAAATTTTCATGGGTCCTCCTCTGCCTACTGCCTTCCTCCCTCTAACAGCCA
AATAATTTTGCATCTACTCTCAATTTTGCACTTTCCTACACCAAATATACTGACATTTTTAGTGCTAAATCCAGGAAAT
TTTTTCTTAGTCTTTGTTTTACTCAGATTCTCTTCAGTATTTGAAGAGTGTAGGCCACTCTCTGTGCATAAAACAGTCT
ATTCCTCCATGGGCTCCTAGCTAACAGCCTGCAGTTTGTCAGTTTTCTTTGGGGTTTCTTGATCCTCTGCCTACCACTG
AAATGGCAGTGTTCTTTYGTCAGCACTTTCTGCTGTTACCCCATATTCCAGAGGTATTTAGCCATGGCTATGCATCAGA
ATCACCTGCAAAGCCTTTTAAAATGCAGCCATCCGCTTGCTATGCTCGATCATCTGAATCAGAATTACTAGGGATTGGG
GCCCAGGCACCTAAGTTATTCAGAAATTCCACAGATGATTGTGATATGCTGGTGGTCTTCTTCACATCCATGCCTTCTC
AGGCATTCCCTTTATCAGTCTTTCATCTGGATATCCTAGACCCTAGGCTTATATTTAGATATGTCTGCACAAGATGTC
CAAACTCACTGATGTGTCCAAGAGAGCCTCCTTGCCTCCATTCCCTTCCCATCTCATCCAATCTGCTCTACCACCTCCC
CCTTTTCTCCTCCCCCATATTTCAGTCTGAATGAGTGACATCAGATTTTATTAAATTGTACAAGCCAGAAACTTGATAA
TCATTTTGAATTGTTTTATTTATCCCTCATGTCCAATCAATTGTCAAGTTCTGTGTTGCTATAACAAAATACCTAAAACTGGG
TAATTTATAATGAACAGAAACTCATTTCTTACAGTCTGGAAGCTGGAAAGTCCAATATCAACGTGCCAGCATCTTGCGA
GGGCTTTCTTGTTGTGACATCATATGGCGGAAAGTGAGAGGGCAGGAGAGAGCAAGAAGGGACTGAACTTGCCCTTATA
AGGGCACCAATGCCTCCCATGAGGGTGGAGCCCTCATGACCTAATTACCTCTTAAAGGTCCCACCTCTTAATACTGTTA
CAATGACTATTAAATTTCAATATGAGTTTTGGAAGGGGAGAAACATTCAAACCATAGCAGCCACCATCATCTGTCTTCT
GAAATATTACCACCACCTCCTGACTGTATCCTCTGTGTTTGGCTTTGCTTACTCCCACTAATCTGTTTTTCACACAATG
CTCAGAACATTTTTTTCTAGAGGATAAAATGATAATATATATTTCCTGCTTAAGACTTTTCAGTGACTATCTGTTGCT
TTCAGAATAGAGGCCAAGCTGTAACATGGCATATATGGCCCATCAGAACCCGACGCCTGTTCTGTTCTTTTGTCAGGTC
CTCTCTTTCATTCTGCACACAGTTTTCATCACAATTCTCTGGCGTTCATGATTCTCTCTTGTCTCTGAGCCTTTGTTTC
TTTGCTGTTTTTGCCTAGAACACCCTCTTCCTCTTGGCTCAGGTCTTACATCTTCCATTCCTGTCAAGGTAACTCCTCC
TCATGTTCCAGCTCATATCTGATATATCATCTTTTAAAAGGATGTCTGCCTAAACCTGTAGAATGGGCTTAAGAGGGCT
TCCTGTTTATTCTCATACTGTGTACAATGAAAATCTACTCATTGATTTACTTCTCTCTCCCACCCAACTTTATGTTCCT
TTAACATAGAAACTTTTAGGCATCGAAGAATTCTTTTTTTTTACATGACACATAAACTCTCAATGATTGTTGAAGGAATG
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CAGTAGTTGAAAAGCTAGAAGTAGAATGAGCTGACTGACTTGAAAAGAGGCCACTACTTAGTGAAAAGCACTTCATTGG
TATGGTAGGAGTTGAAGTCAGAATGCAGAAAATTGAGGAATGAGTGGTGTATGAGTTTTCTGCTGAAACAAAGTACTAG
AAACAGAGTGGTTTAAACAGAAATGTGTTGTCTCACAGTTATGGAGGTGAGAATTCTACGATCGAGGTGTTGGCAGGGC
CATGCTCCCTGTAAAGGAGCTAGGGAAGGAACTGTTCCAGTTCTCTCTTGTAGCTTCTGGTAGTTCCTTTGCTTGTAGC
AGCATCCATCCAGTCTTCACATAGTGTTCCTTCTGTGTACGTGTTTGTCTCTTCACATGGTGTTCTTTTTATAAAGGCG
TGAGGCACACTGGATTAGGGACCTACTCTCTTGCAATATGTCCTCATCTTCACTTAATGAATCATACCTGCAACAATCC
TATTTCCAGTAAGGTCACATTCTCACGTACGAGGAGTTAGGACTTCAACACATGATTTCTGGGGGAGACGCAATAAAGT
GTTGGACTTGGGTTTATTCGTGGTGCTATTATTGTCATACATTCATAGATCAATATTAGCTTTTAATCTCTTATTTTAG
AGTCCACATTGTAGCATAATATTTACTGTGGTTGCCATGGAAGAGAAGTTAGTAAATGACTTTCACTATACAGGGCTAC
CACACTGGTTTCCAAATTGAGCTCTTCAAGGTTGAAGATGGAGGACGATGGAGCTCCTCCACCACAGCACCCTCTCTTT
GCCTAATTTACCCATAAGCAAAGCAAGGTTTGAAATCCACCTATCTAAAATAAGACTTTTAGACATGTTGGAGGATATA
TTTTTAGTCATAATGTTGATAGCAAATAAGAAGAGAAGATACACCCTCAGCAATTGGAGACAAGAAAATCTGATGCATA
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TATATATATATATATATATATGTAATTATTAGGTCTAAGTAATACACAAAGTTAAACCCTTCACTATCTTAGTTGGA
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AAATCAGAATTATAATCTCCATGGGAGCAACTTTATACCAAAAAACACAGAAGCAATTATATTTGAAACCTGCTAGAGT
ACAAAATTCTAGATTATCTTTAGCAGTTTACTTTTATTTTCATGGATAAAATTTGAAAAGACAAGGGCCAGTGACTCAT
TCTACCATTTGAGAGCATCGCTAGGGAGCATGACATTATCACAGAGACAGATATATGGTGACTTGGAAATTTTTTGTAG
GTAATTCCTATTCTTAAACTTAATATGAGTTGCCAATTTGGAACACTGCTACATTATATTTATCACAGAGTTATAACTT
TTAATGGTTTGAGGGATCATAGATCTGACCACATCAATATTTGGCTCATTTTCAAAATAGAAAGTGCTGAAACACCAAA
ATACTGAGCTGAATTCTTTAAAAACTTTAAAGCTGAAAAACCACTCATGTACATAAAGTGAAATAAGAATCAACCTAGTG
TAAATGGCTGCATTTTTGAAATTCCATTGTAAATCTTAATAAAAAATATTGTTTTAAAAAGCCAGCATGTTTGGAAATG
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Fig. 6.214

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GGTGTAATTTGCATTAAAATCAGATGAGATTATTTCTTGGTTTTACTACTAAGACACATGGACACAGGAAGGGGAACAT
CACACACCAGGGCCTGTTGTGGGGTGGGGGAAGGGGGGAGGGATAGCATTAGGAGATATACCTAGTGTTAAATGACGAG
TTAATGGGTGCAGCACACCAACATGGCACATGTATACATATGTAACTAACCTGCACATTGTGCACATGTACCCTAAAAC
TTAAAGTATAATTGAAAAAAAAAAAGACAGATTGTGGATGCTTATGGAAAATACGTTTACTTTTTCTAGACTCCTAGAA
GGCCATTTTGAGGACTTCTGTAATAATTCACTAAATAGATAGAAAACTGCCTAGACCTATACTTCGCTGTAAGATAGTC
CTCTTTTGGTCTAACCCTCATTTCTATTTAGCTAACTAGCTAGTCAGGAGTGTAAGGTAGGCAGTATAAAGAATTTTAA
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GAACTGTATTGTTGAAGAGCTTTTCTTCCTCACAATTGAAGAAGACATAAAGACTGGTGATATAAGAGCAAATGCAGAC
ACTTTTGGTCACTGTTAGCTTGTTTTGAATGTGCTGACTGTGTCTGTGTCCATCTTGAAAATATTGAGGAGTCAGCAAA
ACATATTTGACTCTTTACCCACTTTTTCTTAAATGTTTCATAGTCATGAGTATTTCGTGGGGGAATTTAATCTATGTGC
CTATGATTCATTTACACTAGTCTCATCAAAATGGCATAGGGAGATATTGAATGGCTAAGAATCCTTAAAGTTTAAGAGG
CCATTTAAGGCTTTTATCTCTGAACCAGAAAGTCATAGTGTACCAGGACTACTCCCAATTCAAACATACCAGGGTTCAA
TTTTGTTTTGTCTAATATATCCCAGGAAACCTTACTGTTTGATTCATGATTTCTAACCTCAAAATGCTGGTCTAACATA
TGTATATATATATTAATGAAGTCCAGGTAAGAAGCGCATGGCTAGAATGGGAATGTTCAACATAAAAATATCCCAGCCA
GGCGTGGTGGCTCATGCCTGTAATCCCAGCAGTTTGGGAGGTCGAGGCCTGCAGATCGCTTGAGCTCAAGAGTTTGAGA
CCAGCCTGAGCAACATGGCAAAACCCTGTCTCTACAAAAAATACAAAAATTAGCTGGGTGTGGTAGTGCGTGCCTGTAG
TCTCAGCTACTCAGGAGGCTGAGGCCTGAGAATTGCTTGAGCCTGAGAGGTGGAGGTTGCAGAACCGAGACTGTGCCAC
TGCACTCAGGTCTAGATGATAGAGAGAGACCCTACCACCAAAAAAAAAAAAAAATGAAAGCCACATTTTGAATAACTAA
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CTTTGACTTTGGTTTTAGTTAAAAGATAAAACAAATCATAATTTCTATGATAATACAAAGCTTGAATATTATCATTGG
CATAAAATTCAGTTCTAATTTTTCTCCAAAATAAGATGCTTACTCCAATATAATTATCTTCCTTCTTAATTTTACATAT
TTGCATTTTAAAGTGGCCTATTCCTATGGGGCTAATGTCAGAGCAGAGTGTTCTTTGAACTCAATGTGTGCTCCCCAGT
CAGGTCAAGTCCAGTCAGGGCAGTGACTAAGAAATGGGTCAGAACTTACTTAAATTATGCAGTTGCCTGGAAAAAAGTT
CAACTTATATAATATATGGGAATATGTGAATGGAGAATGGCTTCCCCCTTAATGTGTAAACTGTAACTCAAAATATTTT
TTTGAGTTATAGAAAAATTTTTTTGTAAAAAAATTAAGAAAAAAGTTTTTTTTAAAAATTGAGCCAAATATTAAGATAA
TCTTCATGGTGAAGCATTACTAAATTAATTTAACGGCAGTCTTAATGTAATGTAATTTTGGTTTACTGATATGTAATCA
GTTAATCTTGAAGATTTCATAAGTTCTGGCATTTGTTCTTTCCTCTTGTTTCTCTCTTATAAATTGGTCAATTCTCCAA
AATATGCAAATTAAATTTAATGTTAACCTATGTGTAAGTCAAGGCATGTGAATCCCATGACCAAATAAATATTACAAAG
CAGGTGTCTCTACACTGATGCTGAATACCTACCATTTAGAGAAGACAACTCTCTTCCCCAGGGTCTCAAGGCATCTCAT
TCCCCTGGCTTTCCCCCTTTTCCCTTGAGGACTCTGCATCCTCCTTTGCTGCATCCTCCTCAGCTTTCCAAAGTCTTAG
CATGGACATGTCCCAAGCTTAGTCCTTGCAGTCTTCTGTCCTCCTTCTGCGTATCTCTTACACCTCATCTAATCACAAG
ACTTCAAAGTCTATATGCCATTGTTTGTCAAGTCTCTACCGATCTGGATCTCTCACCTGATACAGACTTTCATATTCAA
CTGCCTTCCTGTCATTTCCACCATGATGTCTCCTCTATACCTGAAACTGAGCATGTCCAAAACCAAAGTATTGCTCTTT
CCCAGCAAACTTGCTCCTCCTGGAGCCTTCCTGATCTCAGACCAAACTTTGTTGTTGTCTTTGACTCTTTTTTTTCCTCA
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ATCACCATGGCAACCAGCTTGGTTCCGGCCACCAACTTTCCCACCTGTGTTGCTGCACCACCTCCTGACCAGTGTCCCT
GCTTCAGCCTGTTTTGCACCCCTCAGCAGAGTGAGGCTGCTCCAGTCTAGGTGGCATTAGGTCACTTCTTTGCTCAGAA
TACTTCAGTAACTTCTGATTTTCCTCAAAATGAAATTGAAGGTCTTTATAATAATCTACTATTTTTTCCTGTGGCCTCT
CAGATTCAGCTCCTACTCCTCCTCCTCTGGTCCAGTCACTCTGGTCTCCTTCCATTCCCACAACTATCCAAGCAAAGTC
CTGCTTCAGGTACTTCATGTTCTCAAGTCCTTCAGCCAGAACTTGCATCAGCCTGATATGCCATTGTTTTCTTTCCTCA
CCTCTTTCCATCCTTTATTTGGATATCTTCAGAGTGAGGCTATCCTTTTATTTGTTTTTAATAATTATATCTTCACCA
TGCCTGTTCCTGGCATTCCCCATCCCCTCTTCTTTTTAAATTGTTCTCCCTGCAAACTGTTATCATATAATCCTTATAT
AGATTTCACTTTTTCTTTTTGTTTATTTTTCATCTCTCCTACCACGACTCAAGAGCCCTAGTTATTTCATAGTTCACTG
CTATATCCCTGGCCTTTAGAGTTGTTCTTAGCATATGGTGGCAGTCAATAAAAATTTGTTGAATAGATAAATAATTACT
GTCTATCTTCCTCTCCTTAGGTAGAAGCAGGCTATATAAAATATAAATTATTGGATTGTCAGACTTGCCCATATTTATA
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AGCAGTAATTTTTTTCCAAATCTAAAACAAACAAACAAACAAAAAAAAAAACAGTGTCAATCAAGGAATCAGAATATAT
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ACCAAAGGTCCTTCATGATCCTTGAAACTTCCTTGCAGTTCTAAAGAAAACTCAAGCTTATAGGAAGAAGTTTTAATG
AGACATTGTGCTGTTCAGGAGAGACAAAATCATAGTTTCTGACCTCAGGGGCATTGATAAAATAAGAGAGCAGAAGCTC
TAGGGAAATTAGTTTTTAGGAAGTGGAATCCGGTGGCTCATTGCACATTCTAAATAGCATCAGAGTAAGAATGACAGTC
TGGCTGATTGGCTTTAGTGATGTGGATAGATTTGGCTGCTATATTATCAAAACTGGATTGAAATCCCTCAATATCAATG
AAGTTTTACAAAGGTATAAGGACTACTGGGCCACAGTTCATTCTAGGACTTCATTTAAGTGACAAAGTAAGGTGGGCCA
AAGTGAGATTGGGACAATAAGCTAAGTAATCTTAAATTTGTTCTTGTGTCTATCCTGATTTGATCAATCCACAAATATT
AATATTTATGGAACATTTACTGTGTACCAGGCACTGTGCTAGGGAGATTGTGTAACAGTGACCACAGCAGATGTAAACC
CTGCCCTTAAGAAGTTTGTATCCTAGTGTGGAGACGGGCATTCAGACAGATAAATGAATATACAAGTGCAGGTTGTGAT
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Fig. 6.215

GAGTGTTACAAGGGGAAATACAAGGGTGCTAGGGGAGAGAACATGAGCCATATGGGTTAAACCAGGGCTATCATCTGAC
TGCTTGTGTCCTCCCAAAATTCTTGTTTTGAAATCCTCACCCCCAATATCATGGTATTAGGAAGTGGGGCTTTGGGAGG
TCATTAAGTCATGAGGGCAGGGTTCTTACAAATGGGATTAGTGCCCTTATGAAAGAAGCCTAGATCCTTTTCCCCTTGA
GCCTTGTGAGCTTGCAGTGAATAGATAGTTGTCCATCAACAAGGAAGTAAACCATCACCAGATATCCAATCTGCTGATG
CCTTCATCTTGGACTTCTTAGCTTCTAGGACTGTCAGCAATAAATTTCTGCTATTTCTAATCTACTCAGGTATTTTGTT
ATAGCAGCCTGAATGGACTAAGACAACCAGGTTGTCATTAAAATCTACCCTGAAGGTTCAGTACGAATCCATGATGTAT
TTGAATAAGATTTGTATGTGAATCCTCTGTAAGGACATCCAGATTTGTGGTCTAGATCCCATTTCTTCCCACTTTCTAA
GAGACCTTGTACCCCTAGCCCCTGTTTCTTTCTGCCAGCATTTTCTGTTTTTCTCCACTGACTCCTTACCTTCTGCCAT
TATCAAGTTTTACCTATTTTGAAATATAAATATCACATTTAATTATTCTCCATAGCCTTACAGACTTCATGTCTTCACC
ACTCAAAACCTCATGTAGTCTCCTTTTCCCCCTCGTTTACTTATTGTTTCATTGAGGTGTATTTCAATGGGTTTGAGGC
ATGATCCCATCCAAAGGACTAATGTGCATATACTCAAAATGTTAATTCAGCTGAACTGCTCACATCTTTGCTTCATTGC
CCATGTCTTTTTGCACTGAATTGTAAGCCACTAAGCTTTGAATCAATGAACATTTTAAAATGTTATTTGTATAGTGTCT
AAAAACATGTGGCAGTTGAGAATAGATTAATCTGTTCTAGACCAAAATAAGATCCTGGTGAAGAGGATTTTAAATTCTT
GAGTTGAAAGCTGATCAAGGTGGAACCATATAATGCCACATGATACAGTGTGATGTCAGATAGATTATTGTAACAAACA
CATAATTAATTAGTAATGAAGTAATAGGGTTTTAGATGTTTAATCTTCAAGCTGGTAGATATAAATTAGGTCACATTAA
AATCAGTTCTCCAGTCTCAATAGCTCTATGCTCATATTCTCCAGCATAAACCTCAGTAACTCACACAACCTCTTTCACT
TAGCATCTCTGAGACTCTGGGGGGTGCCTTGCAATTGCCCCTGCATGGATCTGCCCAGGATGTCACTTTGTACTGGTCT
CTGCTCTACCAGTGACCTTGACCCATGTTCATTAGTCTCTTGATTGCCTAACGGCAGACACCAACCAGTTTGTTCCAGC
TATGAATGTTCTCTGTTGTATCTAGGGCAGTACCAGAACACTATTCACCTGCAGAGTAGAAAGGAGAGTACATCTCCCT
TCTTGCTCTCTCAGGGGAAGCCAACAGCTGTGCTGCTTCTGGAGCTCTCAAATTCTAGGAATCTAGTGAAAAAAGTTCT
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GTGAATTCTTAGTCAGAGACCCATTTTCTGTTTTAGTGAGAATGGGCTACAGGAACAACACCAAAAGCTCAGTTGCTTA
GAAGAGTAGAGGCTTATTTCTCACTCAAGCTACATGTTCATGACAGGTTTGTGGTGGAGGGAGAGGGTTCTGCTCTTCA
CTTAGGAACACAGTTAATGGGAGACACCACAGTCGGGAAAGTTCCCAGTCATTGTGGCAGAAGACAGGGCACTTCATAC
ACAGACCTCAGTGGTTTCCCCCAGAAGTGACACGTATTGCTTCTGCTCACATATCTTTTTTCTTTTTTGTCTTGTTTCA
TCAAATCATAGTGATATTCAGATTAACTACACATATATATATGTGTGTGTGTGTGTGTGTACATATACAAATTAGAG
AGATATACGTGTTTCTCATGCTGCTCACATTTTATTTGCCAAAGTAAGGTTACCATGCCTAACTTCAAAGGGGCAAGAA
AGTGCAATCTTGCCATGTGCCTTAAAGAGGGAGAACTGAGAATGGTGACGAATAGCACCAATGATGAGTACACCTTCTT
CCTTGAAGTTTTGCATCTATATCCTTCTACTTCCCATCCAATCCTGCCTTTTATGACATATCTCTCTACATATGATCTT
CAATCATGTAAATTGCTCAGTATTTCTCTATATTAATTAGTGGTTCTGGCTAAGGGTCTCTCACGAGTTGTTGGCTTGG
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GCCTCTCTATAGGGCTAACCACAGTATTATAGCTTGTATCCCCCAGAGTGAGAGATGAGAGAGACAGATAGGCAGACAG
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GTGGGAGACTTCATGGAAGCTGGCTGCCACTCTCATTCAAGAAGGCTACTTACTCTTATGTAAATCTTGGCTGCCAAAA
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GTTACTTCATTTAGACTAGTGTTGGTGTTCTCCTATGCAATTAAATGGTTCTTGTGTCTTATCATTTTCAATGTCCAAT
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GGCAGAAACCCCACATTAAAATCCATCCTTGTCAGCACTCTCTGATTTCACATACCAGGGTTCTTTTCGGATTAATCAA
AAAATTGTTGAAACGTGTTAAAGGAGAAATGCAATTCTGTAAGGGGAACACAGTTCCTATTTGGAGGGAAGGAATATGT
ATGGCCACTATAATAACAAATTAGGGGAAGGCATGTGTGAATTTTTATGCACTCATCGTCCTATTGAGCACAAGTAGAG
AGGTTTATTTTCTTTTCTTCATTAATTGTTCTTACAGAAATAAACCACACTGTGTAGGAAACTAGGCACTCTTCCCTAC
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GATTAATTCAGACAAACTGTGCAGTGTAACCAATGCAGACAGTATGTTAGAAGCGCATGGATAGCTTGCTTCCTTTTCA
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TGTTTCAACGCTGCACTGCAGCAGCCTGATAATAAATAGGAAAGGGGAGGGGCATGGATGCTGGGCACTCAGTCAGTGC
TAGATGAATAATCCTAAAACAGCAGCCAAGGAGACAAGATAAⱭATGTCAGCCTTTGCCAAATCATATATTAGCATTTTT
AAACAAAGACACCTCTTTATTTTGATTTTGCATATGGGGAACTAAAACAAAATGTTTTTGATGAGGGTTTAGGAAGTCA
TCAATAGGGTTAGGAATCAAATTACAGCCTAATTCTACGCGTATCTGTTGACATAAGCAGAACGTCAGTAAAGTGCCTC
CCAATATCTCTAAATAGCCTCTTGGCATCTGAAACGTAGGGAAAAATATTGGTTACTTTTTAACCAAAAGGCACTAAAA
CTTCCAAAGGTATATGAAATCAGTAAATTATAAAACATGTCCCCTTCCCCCCCTTCTGTAAGAAAGAAATAGAAACAA
AAAGAGAGATGAATATGGGGAAAATAAACAATGAAATAATATTATGAATTAATTGTAAGACTTGCTAACTGGCTGTGTA
ACTTTGGGTGATTTGCTTAACTATTCTGTGCTTTGTTTTCCTCACTGTAAAGTGGACAAACTAGTAGTACTTTTGTGGA

Fig. 6.216

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AGATTAAAATGAGGAAAGGCAAGTCAAGTATTGAGCACAGTGCCTGGCATTTACTACTTACGAAGGTTATGTTCTTTATT
ACTCCATCTACTCTTTCCATAATTGCATCCCCTCCAACCAGTCCTGTCCAGCCTTCTCCGAATCCACAGGACAATTCTG
GTCTCCCAGTATGGTGGGCAAAGGTAGGTTTTGGTGTCCAAGCACAGCTCAGCCATTTACTCTCCAGGTCCATGGGCAA
GTAACTTAACCTCTCCAGGTTCCTCAGATTCATCATCTATAAACTGGGGAATATTAGTACATGCTTTATAAGGTTATTG
TATTAAAGGAAATAACTTGTCTAAGTCTCAATGCACAAAGTCTTCCCCAGAAGACAGACTTGAAAAAATATTAACTTTA
TTTCACTCTCCTCCTGCTGCCATTTCCAATGTGCTGTTGCATGTTTCTAAATGGTATGTGGAAGAAAGCTGATTAGTTT
CTTTGCTAATTATTAATTGAATTCCTTTAGTTAATACAATGTATTCTTTTGAGAAGCTCAGCTCAATTTATAGTGCTAG
AAACATACAAATACAGAATTTATACGAGTTGATCTGGGGTTCACATAGATGAAAGGGTGTTTTCCTAGCACATTGCTCT
GAGAATACTGTAACACTCTTACTTCATGTATATTCATGTATATACATATGTATATATCTATATATGTCTGCATCTACAT
ATGAATATATGTATATCAACTGTTCTTATTTAGTATAGTTCTCCCTGAAAAAGAAGGTACTATTTTATTTTTAAATATT
GGATCTTATTTTTAATATTGGATCTATCTGTAATAAAGTAGCCAAGTTAGGCTGACTACCTGTCTAATGAGTTTCCCGT
TTAGATGGATTAGTTCCATTTAGTCTGTTCCATAGCCCAGATCAGACAGTTCACTAACAAATACACTTAAATTCACATC
ACTTTGGTCCAGAGGGTGTAACTAAGGCCCAAACCTGCTTCTGGTGAAAGTGACCCAGAGGTACGCTTTGCTGATAATA
TCAGGAGCATGGTCTTTGTAATTGGAAGACACTGTCTCCCATCTCCCCATTTGTTATTGCAAGAAAATTAGATTCTCAT
TGAAATAACAGGCCCAAGAATTATAGTAACAGGAGTTTGAACCCCTGTTTGAGAATGTTGGTACTCCTGGGATAAATGA
GATCAATTTTAGCCTATAATAACGGTGCTTTCTACACTTTTTAGATGTTAGAGAAAGTCTGGCAGCAAAGCAAAGCTTT
GTATATACCATGGGAGGCAGGGTTGGAGAATAAAAGAAGAAAGAGAGACTTAAGAACAAAATTGTGTTGATGGGATGT
TTTGATTTTCTTTAAATACTTTAAGTCTCTAGAAATAACAAATTTATTATCTGAAATACAAATAAGAAATACTTATATT
TGGAAAGTTGATAAAACTCAATTATTGTGTAAAATGTTCACAAATTTCCAATGGATAGAAAAAAATAAACTTTTGCATT
GCCAATTATTGAATACTTATTTTCACCTTTGGAAATAGCAAGTCAGTTACAAATTTTATAAATCTATATAATTGTCTTT
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GTTTGGAAGTTACTGGGGAGGAGGTAGAAAGGTCTGACCTTCTCCCCAGGAATTTAATATCTGGTCAGAGAGAAAGAAA
CAGACTTTTGTTGTTGTTTTGTTGGTCTTATAAACAAATGTGCCAAAATGAATGTGTGTATGTGTGTGTGTTTGTGTGCA
CTTGAGCAATCATTTTTGTAGGATAAACTCTTACAAGTGTAATTGTTCTGAAATGGTATGTATATGGTTTACATTTTTAAA
AATTTGCTAAATTGTACTCCAAAATGTCTCTCCTAATCCATGTTTCTAACAACTGTGTATGGGTGTACTGTTTCCCACC
CCCTCACAATCTGCATATTTTTAGTCTTTTAAAAAAAATCTTAAACGAATGTGATAGGCAAAATACCTCATTGTAGTTT
GATTTATTTTTGGTTATCAGTGAGATTGAAGATCTTTTCAAATGGCTTTTGACTATTTATAGTTCCCCTTCTGTGATGG
TTATTTGCATCCATGTCCCATTTTTCTTCTGGGTTATTGGTCTTACTCTAATTTATAGACTCTCCTTAAGGCAAATGAT
ACCAAAACCATACCATGGCTGTTTACAGTCGACCCTCCCAGCTTACGTTGCATTAATAATTGCTTCTTAGAAGCTTATG
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CCTTCTAATGTAATCCTGAAGAAATCTAGGAGATATGTATCATTGTTTTCCAGACGAAAAAATTAAGATTTGGTTAAGG
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AAGTAAATTTTAAAATTATATCTATATTCTTAACTGTCCAATAAAATTGTGTATTTATCATTTACAACATGATGTTTTG
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CACTTAATATCCACTCTGTTAACATTTTTCAAGAATACAACATATTGTTATTGACTAGAATCACCATATTGTACAATAG
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GTATTAGTATGCATTTTTCTGATGATTAGTGATGTGGAATAGTTTTTCATATGTCTGTTGGCCATTTGTAAGTCTTTTG
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GATTATTTCCTTTGTTGTGCAGAAGCTTTTTAGCTTGATGCAATCTTGTCTATTTTGGCTTTTGTTGCCTTTGGTTTTG
GAGTCATGTTCAAAAAATCATTGCCTAAATCAGTGTCATATAGCTTTTCCCTATTCTTACATTTATGTCTTTCATCCA
CTATAGGTTGATTTTTATATATGGTATGAGATAAAGGTTTATATTTATTCTTCTGCATGTGGATATACAGTTTTCCCAG
CACCATTTATTGAAGAGATTGTGTTTCCCCAATGTATGTTCTTGGCACCTTTGTTGAAAATAAGTTCACTGTAGATGTA
GGGGTTTATTTCTGGCTCTCTATTATGTTTCATTGGTCTATATGTCTGTTTTATGTAAGTACGATGCTGTTTTGGTTA
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TAAAAATTTCTTTTTCAGATAGTTCGCTGCTAGTGTATATCAACACTACTGATTTTTGTATGTTGATTTTGTATACTGC
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TAGTTTTCGTCCTTTGTTCTGTTAATGTGATATATTACATGTATTGATTTGTGTGTGTTGAGCCATCCTTGCATCCCTA
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```

Fig. 6.217

TGCATCTATATTCATCAGAAACTTTGGCCTGTAGTTTTCTTTTTTTGTAGTGTCCTTCTCTGGCTTTGGTATCAGGGCA
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TGTTGTGGGTAGCAAGATTACTAGAAATGACTTCTTGGATTATAAAGGACAATTATGATAGCTTAGGCCACTAGCTTTC
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CTCTATAAATCTAAAAATATCACAGTATTTCTTTTTTTTTCCAAAATCTCTCTCTCTCTCTCTTTCTCTCTCTCTCACCT
CTCCTTATCTGAAACAAACTGACATTTAATGAAGAAAACTGTGAAAAGGGGTTCGAGAAAATGAGAAGCTAGTATTTTG
ATTGGAAGTGTAATAGATGTCAGTCAGAGAAAAAGAACAGTCTCCAGAACATCTAGATGTGGATGTAGATGTAGATACA
TTGTTAACGCCACTCTGTGCATTTTAATTTAAGCCACTTGATCATGTAACCATTAATTCAATGTCAAGTTCATTCATTG

Fig. 6.218

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TAGCTATTCAATATTACAATATAGCATTAATTTTAAATGACTTTATTTCAGGAGGGAAGGAAATAATTTATGAATAGCA
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ACCAGATACTATTCTAGGCATTAGAGGATATACCAAGGACAAAACAGACCAGAAAACCCCACTACCCCTAGAGCATGTA
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TCTGGATTGTGAATCTCCTAAGTGTTTTTCAGGTTTTTTTTTTCTTATACCATAGGTGAGAGAGAATGGCTAACGTGGG
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GGCAGCAGTTTGCCCTGTGACCTCACTTCTCTTATGGATCTAAGAAGAGTTGATTTTTCAGTTTGTTCAGCTTTTTTGT
TGTTAGGACAGATTGGCAACTTCCAAGCTCCTTATGTGAGGAACTGAAAGCTGGATTATGTTACTTTTTACTGGGAGG
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AAATAAGGGTTCACATCTTAGGACTCCAAGATGGTATACACATTTGACTTTTTTGTCTTTAAACTTGCTGTGAACATTT
TTCCACTTTTGATTCTTAAGTATAAATATTAAGTGCCTTCTTTGTATTTCAGTATTAGGCTTTTAAGTCTTCTACTTCC
AAAAAAAAAATTAAAAGTAAAATTTAACAAGCATTCTAAATATTCCAATTATGAAATATATTTCATATTATGAGATTTT
TCTTCTGTAAAGAATTTATCATTTAAGATTAGAAGATTTAACCTTGAGGAGTATGATCCAAAATGGCTTTTTATATTA
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Fig. 6.219

225/375

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GTTGAATCATGAAAAGTCCCAACAAAGCATTTGCTGGTTTTAGGTGATGAAACTAGGTGTTTAATGAATTTATTTTTTC
TTTTCTAATTGGTGATTGTACCCTGGGTTATGAGAATATGTAGAAATTGAATGTAGTAGCTACTAGCAACTTGCTGAAA
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GGTCTTGAAATGGGCTCAAGTTATCCTCCTGCATCAGCCTTCCAAGTAGCTAGGACTACAGGCATGAGCAACCAGAACT
GGCTTCCTGATATTTCTTAAAAGTTTCATGAAAGGATGATTATCTTTTAGTGTAACAAAATAGATTAGCATTACCCTAA
CCCAACAACATTTTTTCATTTTTGACAACTTGTTTTTAGATTACAAACCTATTAGTTCTGCCTAACTGTTGTTTCTTGA
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TAAGGCGTAATTTCCCTGTGAGGTGTTTTTACAGGCTTCTCCTTGTTTAGCTTTTCTTGCCTGGTAATTACTGAAAGAAG
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Fig. 6.220

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GTAGCACTGCGTTAAAGTGACCATACATGAATATGTGCCTAAGAAAGAAGAAAAAGCAATATTCATTTCTAAAGGACAG
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AACATCAAGGCTATGTTGAATGCAATTGAATTTCATAGCTAAACAATTTAGGAGGGCATTTTATTTAAATACCTTTGCA
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Fig. 6.221

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AATGCTGCCATGGAGGGCCCCTCTGAGGACACCAGAGGAAGATTTGGGATTAATGATTGTGGAAGGTGATTAATGATTT
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Fig. 6.122Z

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AATTTAGTGCTAAAGAGCCAATGAGAATGATGGAGATGAGGCAGAGAAATTAGGAGAGAGGACAGGATGAGGAAAATTC

Fig. 6.223

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GCCCTGGGAAGGCTGAGAACTGCGGGTATACTCCATAAACAGATCCCTCCCCAGTACTGACAGTGGTTCGGTGGGTGAG
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CCTTATTTATTAGAGAAGCAATAATATTTCTCATGGGAATGCATGTATTAATACTTTCAGAGGTCCAGAAAGTATCAGG
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Fig. 6.224

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CCTTTCTATCTCTCCCTAGTTGGATAATAGTACACATATTAAATGTGTACCTTGTACCAAGTATGCTGAGACCTGCTTA
TAACTAATTTTGCTTGATCTTCATGAATAGTGTTTTGAAATAGCATTTTTCTATCCCTGCAGATAGGAAAACTAGAAAA
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```

Fig. 6.225

TAAAGCCTGTAGAGTACATGCTCCCTTCCTCCACATCACACTGCCCCTGCTTGTTCACACTCAATGTGAGAATCCACTT
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GCATCCATCATTTTCTATGTTGTCATGTTTGGTATCTTTTCATGTATGTAATGTGCATCTCTTCTTAGGAGTAAGACCA
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ATTTCTACCTCTGTACAATAAGGCAAATATGAATACTTACCTCGAGTGTTGTTGTGAAGATGGAATGAATTAATGGCC
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CCTGCTGCTTCAACCCTGGGTTAACTGAAATTTGAAACCTTTTTCTACTCAAATTCCTTTGATGCTGAAATTCCTCTGC
GGTCACAGCTAAGCACTTTGTGTGGTAACCTTCTCTTCGTCCTCAGGCCTGCTGAGATCATCTGCTCAGCAGCATGTC
TGACACCTGTTGCCACCTCACCCAGCCACTTCCTTGGTGACCTGGCAATGCCCAGAGGGGCCCTGCCAGCTTGGAGCCC
TGTGGCAATGCTGTTTGATTCAGCAAACTGATAGCCTTCTGACATCCTTTCTTCATTTTAGCAGCCAAATCACATGCAC
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CAGAATGGTTAAGCCAGGTGTAAAATATCTCACAATAACATGCCCTGTTGTCCTGAGGATTCAATTCCACCGAGATATA
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TCCAAGAGGGCCACTGGAGGCTTAGGGGCTTTGAAGTTAACAGCATGAAACTTCTCCAAAACAAACATTTAATTTTTTT
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GGGTCCCAAATTACTGGAAATCATAACATGGCTCATGTGAAGAAAGAATTATACTATTTTCAAGCTGTTGTATGTTAAA

Fig. 6.226

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CTATTATAGTAAGTAGCATAATTGGCATATATTTTAGGCCGTATTTTCAATAAATCAATATTTTTGCTCAAAAGGCAAA
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GATGACACCTAAGGAAAAATGCTAGTCATAGTGTGAGAAATCATAGCCTTCTCTTTCAAATGCTTTTATTCATATTCCT
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Fig. 6.227

TTGGACTTGATTTTAGATATTGCTCGCCAAATTTAGCCATCTTTCTTGGTAGACATTTCTGAAAGTTTAGTGATTAAAA
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TAAAATATTAAGTATAGCTTATTATGCCCTGTTAATCTTTCTCAGTGGCATACAATAATTTAAATATCTGCTTGAAAAA
TCTCACCAAGCATTCATTTTAATGTGGCTTAGAATGTTATATAATATGAAAAAGTACGTGTTCTTTCAGAAATTAGTTC
CAAAGAACTCCCTATATCTAGAGACAGGCTGTGAGAATGGAGAAAGTTGAGGAGTGTCTCTGTTAGGAATCTTACTACT
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ATTTTTATAATAAAAAATATATAGTCATTCAAGGAAAACATGTAGACGGACATCACAAAATACCAACAACAGGTATGGT
TCAAAGTGTTATAGGTGGTTTTCAGCACATAGATTACCCCTAGCAAAGAGACCTCTGTGACACTTCGTTTCTTCATCTG
TGAAATAAAGGAATCATACTAGATTAGTTCTAAATGCTTTTAGCAAAAATATTTCATAATTCTATGAGTATTGATGGTT
AATAACCTTGAGAAAATTGTTATTATTTATTGAACTTTGGAGTTAGTAGAGTAAAACCAAGTTTATCCTGAGCTATCCC

Fig. 6.22

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TTGTTTTAGTTAAAATTAGTTAAATTTAACATCCTGATGTTTATTTATAAATTGTGCATGTGTACATGTGTGTGTTTGT
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CAGGTTCCAGGCACTGTTCTAGGCACTGAAGATGAAAGATGAATAATATGGAGTTCCCATCTTCAAAGAAGTTACAAT
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Fig. 6.229

TGGCTGGTCTCTTTACCTCTGAGGTTCTTTTGCTTTTTATGTAATTGGATTTTAACCTCAGAAGACTGTAAGGTTAAAG
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GCAATCTCATATCTAGAAATTGTGCCTATGTTCTGTCTATAAATTGATGAATTGGCAGGGTGTTACATTTAGGACACAC
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GGCAGTTGACCTCTCTAAACCTGTCCTGGATTCCTTTATATCTTTGTAGTCACCTTTTTACCCCTCAAGAATTCCCCT
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CGAACAAAGAAATCACAATTGAGGCAAAACATGTTTTGCTATTGAAGGCAAAACCTCCTTAGAGCAATTTTGGGGTTGT
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Fig. 6.230

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AAGCATGAATAATTTATTTCTGACAACATATTCTTTTTAATATCTGCATTACTTTGGTCKGCTAAGGAGATAAACCTAC
TCATGTGACATACCATATGTAAACATTTTCCTAATTAATAACTGGAAAGCTTCTATGTGAAATACAAACTTTCTGCTCA
TACATAATGTAGACTACAGGCAGACAGTTAAGAGTTGGTCAAAGCTGTCAAAGCTTGTTTTATGGAAATCTCATCTTCT
TTTCCTGTGCTCTTTATCCTAGTCCAGGTCCTCTGAATTCTTTTACTCTACAGTACTTAGCTAATACAGTGTTTATCCT
CACATTCTATCATAGCTTTTATATTAACCACTCAGCAAAATATGTGTGCATGCACATACACGCACAACCATACCTATAT
TTAATCATCTAGTAAACTATATTAAATCTTCTGTAAACTTCAGATAAGCCTGTTTAAATTGGGGGTGGGTCGTATTGTA
GCATACCAAATGGTTCATATACCAAGTATATATTTGTCATACTATGTGGAACAGTATTATATTTAAAACTGAAGTCTTA
TTTCATGTAGGTTGTACCAAATTTGTGGTGGTAAACATTGTATTTAGGTCATTCACAAAGAGTACAGAAATACAGATTA
GCCATATTTTTCTATAGTGCCATTCAGTGTAATAGGTACACAATACATCTCATATTAAAGAAAAAAGAGTCTTTTCAAA
AGCCTGTAAGGGTCTGAATAAAGGTCTTAGAAATGTGTCATAACAGCTGAAATCTAAGAGATTTGGAAAAAGTGGGAGA
AGTTAAATATTGCAAATGCATAGAGCTAAGACTTCTTCATTGAAAGTTGGGTAGTTCCAACATTCATGTGGAAAATCTT
TAAAAGTAGCCAAAAGGTAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGCTGAGTCTTGCTCTGTTGCCCAG
GCTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAAGCTCYGCCTCCCGGGTTCACGCCATTCTCTTGCCTCAGCCTCC
CGAGTAGCTGGGACTACAGGTGCCTGCCACCACGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTCATCGT
GTTAGCCAGGATGGTCTCAATCTCCTGACCTTGTGATTCACCCATCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTG
AGCCACCATGCCTGGCCCAAAAGCTAATTTTTTAAATTTTCCAGATAGAACTTCATGTGTATTTGATATATTCCATTTT
CGTGTATCCAATATTACCAAATCCATGGTATTTTTATTCTTTGTTTTAGATATTCTAATCATTTCACAGCACTTTCATT
ACACATCTGCCCAGATTTCCTGTTGCTAAATTTCAGACACTATTCTTTAAGTCTTGGAAGAGATCAACTTTTTCAGCAC
AACCCATCCCAAACAATGTAATGTTACTGTGCTATATTAAGACAACACATGTGCTGATCTTTTTCAGGCATTTCCAGAA
TTTTTATTGAATGTCAAGTATGTGCAAGGCAAAGTCCATCTAGCGATTTTAGGATTTCCAGGACCTGCCATTTATAAAC
TTCCTGGAAGAAAAATTAACCCCCTCAAAATGGGTGTTGACATCCAGTTTGCCTTTATAGCTCCTCTGATGCCTTTTAA
AAACTATATTTACCCATCTTATGTCAATAAAAAGGATGTATTTATTATAAGTTGTGGCAGATAGTGTTTTATAGACAAT
TTTATAGCCCACGTGTTAAAGGTAAAAGCAAAGAAATTATGCTACTTTGCTGTATTTTCCCAGTGATTTATGTAAGTAT
```

Fig. 6.231

TTATTCCCTGTAGGAAAAAGTTGAAACACTATTGTTGACAACAGGGCCCAAATAGGTATCAGCTTGATGTACTTTATCA
CATATTATCTTTTTGTTTTTGCATCATCCCTAGGAGGTAAATATGTAACACTTTGGTTTCATTAGCATCACAACAGATT
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TTCTTATCCACTTTCAATCACCTGGGGAACTTTAAAAAAATCTGATGCCTGGGCCAGACACCCAGAAAAATGACATCAGA
CTTTCTGGGGACAGGACCCAGGTGACTGTATTTTTCTAAATGTCTTTCATGACTCCGCTGCTTTAGAGGTTCACAGACT
TCCCACTTAAAGAACTGCTGGTTAAGAAATGCATCCCTACTTGCTCGGACTCCCAGGGATATCACTTTTCACCTGTTCCT
ATCATTTAGAAAAAAATGATTTGAATCAGCTAGATACATGATAGAGGACCCCCCCCCCCACACACACACACACCAATC
TAAGCACAAAATTATCTTGTTGTCCTCAATAGTTTGCATGGATAAGTAATGCAGAATAAGCATCATACCCAATATTAAT
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GGTTTCTCACATTCTGGCCTCCATCACCACCACTACTGCTTTGGCCTGGCCTTTTGTCAAGCTAGAAATTGCCAGAATT
TCCTGACAACAGGCTCTGTAAGATTCAGTTTAGAGCTTACACTTTGGCTGGAGTTCATCTTCCTAAAAAGAGACTGTGA
TATGTAAATCCACAACCTGAAATCTCATTGGCTCTCCATTGCCTACCAATAACCCAAAATCCTCTACTCAGGAAGTCCT
GGATGGTGTAACTCCATTGCACACAGGTTCATCCCACAAGGCCTCTTGGTAATGGGGTACTTTCATGTGCATACTATTC
TGCTGCTCTTGTGGAAAGAGTCTTCAACCCCATTCTGTATACCCTGGACACTCACCTGAGACCCAGCTGAAACAGACCT
TGTCATCTCGGACCCTGCCCTTGGTTCTGTTGAAAGAATTAGCCACCAGATCCTTGAGGCTGTCTCAGGACTTTTGCTT
CACCTTTATTATAACAATTGGAATGCAGGCAAAATAGTGTTTCCAGTTACTAAAATAAAACTATAGACCATACAATATG
TTTGTTTTGTGCTTATTTAACTCGCAGGGGAAAATACCCATATTTTTAAGACTCTGGATTTAAAAAATCTGGTTGATTA
TATGAGAATATTGTTGGCTTGTCTGTTTGATTTTGCTTTTTTTGGGTTGCCAATAAAAATTTTAGAGCAAGAAAATCAAT
CTCTGGAAAATATGTCTAAAATGCAAGAGAAAATTCCAAGAAAATAAGCTAGATTTCAATTAACATGTGAAAAGCATTT
CTTAATATATACAATGTTTATTTTACATGGATAATTTATGTAAGTTATTGAATAAATAATACTTTTAGGTTTGGGTTTT
AGGGGAGGTTTTAGGTTTGGGTTGCAGCAGAGGCTTTTTCAGCTGATTCAAATATCTAGTTTTCAAAATACTCTGCCCA
CATGATTTTTAGATATGACTTAGCCTTAATTGCTGACTCAGATTTTCACCTTTTAAAAAGCAATTGTGCTTTTTCATAT
ACACTATCAAACAAGATTATAAGATATTTTAAGGTAAGAAAGTAAAAGGGCATCCACTAATGATCATCAGAATCACCTG
GAAGGGCCAATAAGCCACACATTACCAGGCCCCTTCCCAAAAATTTCTAATTCTGTAGATCTGTGGTACAGCCTCCAAT
TTTTTGCTTCTAATAAGACCCCAAGTGACACTAATGCTGCTAGTCTGGAGACCACACTTTGAGAATCACTGCATTAAAT
TAACAATTTTATTGGTTGAGTTTTCACCACAGTGTGCATATCTGTTGACTAACAATGAATAGCTTTGTTGTCGCCAAAC
ACTGTAATGTTTCCAAATATCCATATGTAGTCACAGGCCCAGAGAAACAAACCACATCTATATTAAGACTGTTTTGTTG
TTGTTTGACCCCCCCACCCTTTAGTGTTTTAATTACATCAATCCTGGAGAAAAATAACTGTTTTCTAATTTGGGCATTA
CAGATTTGCTAAGGCAATAGAAAATTCTATCTTAAACCTTTAGATTTTTAGTCTTCTAGTAAATATAAGCATATGAGTT
CCAAGCAAATTCTGAGTTTTTAAAAAATTTAATAAAATTGACAAATGTTTTCAATAAAAATTGGAGAGGCCCATTTCCTTG
TACAAATATTCTAAAAATAGATGATAAAAGTTCTAAGTGCCATTTTTTTGAAAGATCAGCAAAATAATTCTACAAGTATT
TGTGGGCATGTTATCTTTTCTATGATACTGGTTATAAACTTAAGTTATATGAAGACAGTGTGTTAGTTAAATTATGTTC
TAGTCCTACCTTAAGGAAATAAAAACAATAAGGCTCTTAGGGCCTTTCTTCTGCACCACTGCAGTACTTGCTAACATGT
TTTAATAACATGTAGCTGAGAATGATAAACTCTAGGCAGCAGGGTGGCTTGGAGATACTAATGGAAATGCCCAGTCAAA
AAGAGCCTGGACTAGACTGAGGTCTGAAGACTCCAAATAACTTTCTGTTATCCCACCATCTTCTCAGATGGTCCAATCA
TGCTACACTCAGTCTAGGGCAATGACCCTGAGGAATGGTATGTTTGGCAAAAAAGAAACCAAAGAAGGCTACTGCCATG
CTTTAAGATTTTCCCATATATCTTTTTCAGCATCTTGAATGGGGTTTCTGAAAGTCTGAGGAGTGAACTGTGACCAAAA
TGGCTGATATTTTGAGCTCAAAGAAACTTAAATTTTTAGGTAAGGATACTAAGACCGACTTAAAAAGTATAGTATCAAT
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GGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAAACCCATCTCTACTAAAAATACAGAAATTAGCTGGGCATGG
TGGTGGCAGGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATGGCTTGAACCCAGGAGGCAGAGGTTAC
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TTAATTTTCTGAAATAAATATTTTTTGAGTTTATACTATATACCAGGTGCTGCTGTAAGTGCTAGGAATATAACAGTGA
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CTCCACTGCCTAATCCCTGGACTAAATGAACATTACCTCACATGCAAAAAAGATTTTGCAGATTTGATTAGGGGCACA
GACCTTGAGATGTAGTGTCCGTATTAGCCCAGTGGGCCCAATCTAATCACACAAGTCCTTCTAAGCAAAGACTTTTCCC
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CAACCCTGAAGACACCTTGATTTTAGCCCATTGAGGCCTGTGTTGGACTTCTGACCTACAGAACTATAAAATGATACAT
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AGAAAAATAAGTAAAAAATATATGTTGGATAGTGATAAGTGCTAAGGAAAAAGTCAGGGAATGACATAGGAAGTTATC
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TTTCAGATGAAGGAAACAGGAGGCTAAAAGCTGAGACTAGGACAATGATCAGCCTGACTAGATTCTGAATATCACCATT
AAAAGAGCAGTTTCTACTTCAGAATATATGTACAAGCTTCACCTGGGAACCATGTGTGATGATTTAGGATGAAGTTTCA
AAACTCCACAGATGACATTCTTATTTTTCTATAAGCAAACAGTCTTGCCCAAATAACATCATTTACTTTTTCATGTTTG.
CTGGAGAGTTCATTAAGAAATTCAATACACCGTATTCAAAGAAGATGAATTCTTACAATCACTTAGAATTTGGTCTAAG
GCAAACAATTGAGGATGTTCAGACTGAGTCTTTTTGGACCATCTACTCAACATCATTATCAACCAACAGCTTATACCCC

Fig. 6.232

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TTCAAAGGGATCTCAAATTATATTTGATCCTGAGTTGTTGCTATAATAAATTTAGAGCTGGAGAAAAATAGTCATTGTA
ATTATTTTGTTATTAGAGACCGGCTTACATATGCTAAATAAATAAAAACAAAATGAGAGTTAATTCTATGTGAAATTCA
CCATCAATTTTGATGAAATTTCCTATTGATACTTCCAAGTACAGTAGGCCTTTCGTATCCATGGGTTCCACATCTGTGT
ATTCAATCCAATTTTTTTTTTTAATAATATGGTTGTGTATATACTGAACATGTACAGACTTTTCTTGTCATTCCCTAAA
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GATGTGTGTAGGTTATATACAAATACTATGTCATTTTATATAAGGAACTTGAGCATCCATGGATTTTGGTATCTGCCTG
AAGACCTGGAACCAATCCCCAAAGATCCTGAGGGACCACTGTAATCTAATTGAGGCCAAGTTTCATGGGTTTGTATCCT
CTTAAGTACCTGGGGGAAAAAACTGTCTGATTTTTTTTTAAGTTTTAGTATACCATATATTTTAATTTTCAAAGAAAGG
AAAACAGAAATTTTATGATCTGTGTCAATAGAAGTGTTAATATATAAAGCAAAGAAATGCCTAGGTGAATATTGGCCTA
GTAATAAACATTCTGCAATGGTGCTTCATGGGAAATACGCCTTACCTTGCTACTCAAAATGTGATCCATGAACCAGCAG
TATGAATATCACCTGGACTTGGTAGAAATTCTTGGACCCCACCCTGACCTAGTGGGTAACCATCTGCATTGCAGTAAGA
TCCCAGGTGATTCATATGTGTTTTCAATGTGAGAAGCACAGCACTGGGGCCTTACCCGGGGCCCTCCTTAGGAAACACA
CCAAGTATTGCATGTTTTTACATCCTGACAGGTCCATATGAACTCACATTTTTCCGAATACAGTGCACTAGCATATCT
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GTTATGCTTTTGAGAATTTATCAAACCTTTTGGTCATATAATGTTTTTATTTCAAAACCTTAAATTGGTCAACATATTT
TTAAATATTTAATAGTTGAGGGATGAAGAGGATAGAAGTTTAATTAGTTCAAAGGAAGGTAAATTGGGAAGGAAACAAA
CTTTTTTGTTGAATCAGAATTTTCAGGATGAAAAAAGACACCAGTGCCCTGTGGTTCAGTGCTAACACAGCTATGATGT
GACTCTTCAAAGGTCAATGCTTGTGCCCCTATTGCTGCACATCCTTCTCCTTGTCAGTGTTGATGTGTCATTGGCTGGC
TCTGTGTCATTGGCTTGGTCTTGCTTTCACTGAACTTTGGCCTCCGTGAAACTTCTAAGTAGCATTGCTCCTACCTGTG
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AGGTGCGATGGAGTAAACTTTGGGAATGACATTTTGGTGACCCAGCACACAACTGCCTGAAATTCCATTTTCATGTGAC
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GCAAATTCCAGAAATTCCTAAAGTAATCCAATTAGCTCAGAACATCATAGAGACTTTTTTTTTTCTTTGCCTCATCCTG
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CAAGGGTTTTGTTCCCTCTTTTCAAAGCAGAACTTAAAAGAATTTTGCTTACCTTTAAGCGTGCAGTTCACATCATTGA
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TTTTAAAATGAATACTTTGTGAACATAGTACTAGAAAAAGGATAGTGTTTTGAATATTTTAATAGCCTTACAGGGGTTAA
AAAAGGATCTTATAAAAAGTATGTTTAGTACCATTCAATTTTTACAAATTTATGCATTTGCTTATTCATATATGTAAAT
TTAAAATTTACATATAAGCTTATACTCAGAAAAAGATAAATGTTGTAAACACACTTGCATGCACACACACACCATAACA
ACCACCATGCCATTCAGTGGTTATTTCAGGGTAAGTAGGATTGCAGAAACTTTTACATATTCACGTTTTGCCTATATTT
TCTGTTATAAGCTTTTATTTTGGCATGAGAAGAAAAAAATTTTAAAATTTCCCAAAAACATTCTTTGTAATAGTCAAAA
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CCTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCTGGTGGATTGCTTGAGCCCAGGAGTTTGAGACC
AGCCTGGGCAATATGGCAAAACACCATATGTACAAAAAATACAAAAAAAATAGCCAAGCATGGTGGCATGCACATGTAG
TCCTAGCTACTAGGGTGGCTGAGGTGGGAGGATTGCTTGAGCCTGAGAGGCAGAGGTTGCTGTGAGCCGAGATCACGCC
ACTGCATTCTAGCCAGGGAGATAGAACAAGACCCTGTCTCAAAAAAATAAAATTAAGCAATGGGAAAAGATTCCTCTTG
CTATTTTAAATGTTGATCAACATTCAAATTTTCAGTGGTTTTAGGTAACAAGACATGTCAACCTCCTGAAACAGTAATT
GTTGTAGATAATAAGAATATATATGAGTTTGGCTTTACCTGATTTTAAAAGTGGAGAGAAAAGCTGAATTGAAGCAAGC
ATACAATTATTTTCTAAACATATCCTCTCCAGTTTCAGTGTTTTTTAATCAAACCACCAGGAATGGTGCAGCAGACAAT
GCCAGTCCATGTCTCCCCCTTCATGGTCCCTTAGTTGTCATTAATGGGTGACTGCAGAGAACCATAGGCATTTGAGGAC
TTAACAGAGATATGTTTTATATTGAGAGTGGACATAAGCTCCTCATTGCCTCATTGTGGTTTGCACTTCAAACTGCAGC
GTGTACTTTTTCTAAGCTCTGTGGTCTGCCTTCCTAGGACTGCTTGCCCTGTACTGTTATTTCAGAATGTTTATCTAGT
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Fig. 6.233

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GAGGAGTGCTGCATTGCTCCATTGTGCATCACAGGGCACAGGAAGCAATGGTATGACATTTTTGCTGCACATCTATTTT
TGATTATTCTCAAAAGATGAAAATGTTTATCACTGCAGGGGTGTATTAGTCCATTTTCATGCTGCTATAAAGAACTACT
TGAGATATGGTAATTTATAAAGGAAACAGGTTTCATTGACTCACAGTTCTGCATGACTGGAAAGGCTTCAGGAAACTTA
AAATCATGGTGGAATGGGAAACAAACACGTTCTTATTCACATGGCGGCAGGGGAGGGAAGTGCAGAGGAAAGGGGGAAA
AAGCCCCTTATAGAACTATCAGATCTCCTGAGAAGTCACTCACTATCATGAGAACAGCAGGGGGATCTGCTCCCATGAT
CTAATCACCTCCCATGAGGTTCCCTCCCCCAAAACATGGGGATTACAATTTGGATTACAATTCGAGATTTGGGTGAGGA
CACAGAGCCAGACCATATCATTCCACCTTTTGCCCTCCAAAATCTCATCTTTCTCACATTTCAAAACACAATTATGCCT
TCCCAAGAGTCTCCCAAAGTCTTGACTCATTTCAGCGTTAACTCAATAGTCCAAGTCCAAAGTCTCGACTGAGACAAGG
CAAGTCCCTTCTGTCTATGAGCCTGTAAAAGCAAAAGCAAGTTAATTACTTCCTAGATACAGTGGAGGCACAGGTATTG
GGTAAATACACTCATTCCAAATGGGAGAAATTGTCCAGAACAAAGGGGCAACAGGCCCCATGCAAGTCCAAAATCCAAT
AGGGCAGTCATTAAACATTAAAGTTCCAAAATGATCTCCTTTGACTCCATGTCTTACATCCAGTTCATGCTGTTGCAAG
AGTTGGGTCCCCACCACTTTGGCAGCTCCACCCCTGTGGTTTTTCAGGGTACAGTCCCCTCCTGGCTGCTTTCATGGGC
TGGCATTGAGTGTCTGCAGCTTTTCCAGGTGCGCAGTGCAAGCTGTTGGTGGAGCTACCATTCTGGGTCTGGAGGATG
GTTGCCCTCTTCTCACAGCTCCACTATGCAGTGCCCCAGTGGGAATTCTGTGTGGGAGCTTGCACCCCACATTTTCCTA
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GACTGAAGCAGCTGGGATGCAGGGTTGCACAGAGCAGGGGGACCCTAGGCCCACCCCACAAAATAAAGTCTTTCCTCCT
AGGCCTCCAGGCCTGTAATAGGAGGGGCTGCTGTGAAGTCGTCTAACAGGCTCTAGAGACATTTTCCTCATTGTCTTGG
TGATTAACATTTGGCATCTCATTACTTATGCAAATTTCTGCAGCTGGCTGGAATTTTCCCCCAGAAAATGGGTTTTTCT
TTGCTATTACATCATCAGGCTGCAAATTTCTCAAACTTTTATGGTGTGCTTCCTTTTGAATTTTCTTCCACCAGATACT
CTAAATCATCTCTCTAATTCACAGTTCCACAGATCTCTACGGCAGGGACAAAATGCCACCAGCCTCTTTGCTAAAGCAT
AGCAAGAGTGACCTTTACTCCAGTTTCTAACAAGTTCCTCATCTCCATCTCAGACCAACTCAGCCTGGACGTCATTGTT
CGTATCACTATAAGCATTTTGGTCAAAGCCATTCAACAAGTTTCTCAGACGTCCCAAACTTTCCCACATCTTTCTGTCT
TCTGAGCCCTCCAAGTCTCTAGGAAGTTGCACATTTTCCCACATTTTCCTGTCTTCTTCTGAGGCCTCCAAACTGTTCC
AACCTCTGCCTGTTACCCAGTTCCAAAGTCGCTTCCACATTTTCAGGTATCTGCAGTAGTGCCACACTACTCTCAGTAC
CAACTGACTGTACTAATCTGTTCTCACACTGCTATAAAGAACTGCCTGAGACTGGGTAATTTGTAAAGGAAACGGGTTT
AATTGACTTACAGTTCCACATGACTGGGGAGGCTTCAGGAAACTTACAAACATGGTGGAAGGGGAAGCAAACATGTTCT
TCTTCACATGGCAGCAGGAGAGAGAAGTGCAGAGTGGAGGGGAAAAAGCCCCTTATAAAACCATTAGAGCTCCAGAGAA
GTCACTCACTATTATTAGAACGACATGGGGGAATCTGTTCCATGATCTAATCACCTCCCATGAGGACTTTCCCCCAAAA
CGTGGGGATTACAATTTGCATTACAATTCAAGTTGAGATTTGGTTGAGGACACAGAACCAGACCATATCAAAGAGTTTG
CTTTGACAAAAGGAAGTGTATCTTTTTATTTACTTATTTACAAAGCAGCTTATTAAAGTTATTAAATAGTTTTCAAAGG
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GTAAATATCTTAGAAATGTTTTCATGGTTCAAAGCTGATATTTGACAATTGTGTTAGATCTATAAAAAATTCACAAAACAT
CCCTATAATTTTCAGATACAAAATGCTAATAAGGATTTTAAAGTTCAATGTGGACCACAGGGCTTCTGCTTTTGCAGGT
GTACCTTCATTTACATCCTTTCAGTTGAGGAAGGGTGGGTGTTTGAGAGCAAAATGTATGTATAAGGTAAGAAGAAAAG
AGAAATGAGAGAGAGAAGCAGAAGATAGTGAGCCATCAATAATGATATTAGTTGGCATTCATTTCAAAAGCCAACCACC
CCAATTTAGAGGATTTGCATTTAGGACTAATTAAATTATAAGCTAATTGAGCAGGGACTGAGTTAAGCCTACTGATAGT
GCTTCATAAATATTCATATTAACAATAATACAAGATGTTCCTTTTCAAGGCTAAAAACTTTTTCTAAATGGTGTATACA
ACTTGTGAGTCTTGGTAAGTCAATGTTGTTGCATTCCTGAATTTTTCTATCCCTTTTAAGGATAATTCTAACTCAAGTG
AACCGAAATTTTCCCTGTAGCAGTAGAGGTCCTCTGAAAATTGAGGAAGCTCTCCATGTGTAATGCTCTGAAAATGGCA
GACATTTCAGAGTCACATTCTGTATATCATTCATGTGAAATGGCATAGGCAATTTTACTCCTCAAGATTCTTTGCCCAG
AATTCGCAATTTAATAAGAACAAGTATTATGAATTGTTGAAGATTCTTCCAGCTCTCTTGGAAATAAAGGGTCTTCTCA
AATTGTAGCTTTGGTACATTAATAGTTACTCTGGGGGCCTAAATGAGTTAGTTAATGTGCAGCTTAAACATCTGAGGCA
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ACACTGTTTGTGTGCAGCTAGCAACTGTCTCTAAGTCTTGGGTTTGTTGGAGCATAAAGTGCACTCCAGTGCCCTGAGT
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TTTTCCTCATATTTCTATGTGGTTATTTATAGTTCAAGAACAAGTATTTAAAATATTTAAATGATAGCCATTCAATTAA
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AAGTGTACTGTATTTTTTAAATTTGTGAACATGGGAAATTATACAATGTTCTATAATAATTTCAAACCTGAGTTTTTTT
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CTATCTTTTTATCTTCATGTTCATCAATAGTAAACATTCAACCTTCAACGGTTAACAAATATTAAGTGTTTACCATGTA
CCAGACACTTTTCTACATTCTGGGGTGACAGATCTAGAATTACAAGTGTATCAAATATTATAACAGACAGGTGGAAGGT
GCTACAGGATCAAATAAGAAGAGGACATAAACTTAACTGTAGAGATGGGTTGGGGAGGGAGGAAGAAGTTAGTGTTAGA
ACAGGCAACTTTTAAAGAATTAACCAGGAAGTTATGCAATTTGGGGTAAAGTGGGGAAAGAGTGTCAGGGAAATGAGGT
TGAAACAGATAATATAAGATTTGCTATTTATTCAAAAATAGTTTAGAGGCCAGTAATTGGCTGGGAGAAGAATGGTGCA
CAGATGGGCAAGTGTTGACCTGCAAGGCCAATTAGAAAGCTGTGTCTATAAGTAAAGGCAAGAGATGAGGATGACCTGG
ATTAGGAAACAAAAAAATCCTCTCTTTTTACCTGCAAAAATAGCTGTTGACTTTGTCTCCCTTCCATACAAGACTTGGGG
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Fig. 6.234

240/375

TCTCCACGTTTCCAGCAAGAGACTGGGCAGTTATACATCTGTTTTTATTTTTACTCTGACCTGACTGCTTTATGCAAGA
TGGGCCAAGTCTCCCTTATACATCAGGAATGCACTGATGTAAAGACAAGATATCTGCTCCTCCAGCCACCTTTCTTCCA
GGTCTATCTGCCTTAATTCCTCTTCCCCCATTCTCAGTGGTGCATCATTCTCTACTGCTGTCCTAGTCCTGCCTCAGTT
TTCCATTAGTTTTATTTTGCAGCAGAGATTTTTTTTTTTTTTAGTGATCTCCTATTGTTCCTTAATCACCCTTGAAATA
TACCTAATTAACCCAAGTAAACCTTCATGATGCATGTCTCTTCATCCTAGGAGTATAAATGATCCTTGTATATCTATAG
GAACGTTTCTATTCCAGTCTTTGAAATTGAGGAATTTCATATACATTATATATATACACACATACAGACACACACAC
ACAACGTGTATATATGTGTATATATGTGTATATATGTATATGTGTGTGTGTATGTGTGCATATACATATTCCATTAGTT
ATGAACAGCTCTTTTTTATCTCTTAAAAGCAGCAAAATAAAATATTGACATTATTCAGTGAATTGATAGTTGAAATGTA
AGGATTTCAGAATGAAAGTTATGTAGTAAATCCTAGCCCTTTCCGAATCCTGATTTCCTAAATCTAACCTATATGGAAT
TTCTTTTTTTTTTAATAAAGGTTCCATGAAACTTGGCCTCTTTCCTATCATCTTAAATCGTTCTCCTCTTATACTTCTC
TTAGTTCTACTTCTTTCACGTGAAATCCATTCTAATGTGAACCTCGGTTTCTCTGAGAGGTGCCTCACCACAATGCCCA
TGCCTTTCTGCACTTCCCACGTAGATCTTCTTGCCCCAAATACCTACTGTGAGCCTTCTTTCCTCTGTGCCTTTCATTA
TTCCACTCATCTGAAATTCAGTCGCACCAACTTTTTAAGCACCTTTATCAGGCACTGTGGTCAGTAAGGTTTACAGATG
AATAAGGCATGATTGCCAGTCACTGACAACAAATTTGGGGCAGGGAGAACAGCCCCATCCCCATAAATGGTCTCATGTT
TCTTTTGTTTGTTTGTTTGTTTTGATAGAATCTCACTCTGTTGCCCAGGCTGGAGTGCAGTGGTGTGATCTTGGCTCAC
CATAACCTCTGCCTCCCAGGTTCAAGCAATTCTCCTGCCTTAGCCTTCGAAGTAGCTGGGACTACAGGTGCTGGCCACC
ACACCCAGCTAATTTTTTTGTATTATGAGTAGAGATGAGGTTTACCATGTTGGCCAGGCTGGTCTCAAACTCCTGACCT
CAAGTGATCCCCCCACCTCAGCCTCCAAAAAAGCTGGGATTACAGGTGTGAGGTACCGTGTCCTGCCCATAAACAGCCT
CATTTATAAACCATAAATACATAAGTGCTGAGATAGAGATTTGTGTGTGTGTGTGTATTTGGGGGGTGGTGGATACA
CTTTGCCCAACAAATCCAATATTGTTTACTACTTCCTGTGCTTCCCACATGACTGTTCTCTCATCTTTCTCTTAAATTA
ATGGAAATACCCTCCTAACCAGTTTTCCGACTGGTGCTTTTGCCCATCCAGTCTAATCTCATAGCAGAGTTATTCTACA
AAAACAGTAATTAGTTCACATCGTGTTGCTCTCTGCTCAAAGCCATCCAATGGCATGCCATCTAGAGTCAAAGTCAAAT
TCTTGCTATGTCTGTTAAACTTCTACATGATCTATGTCTACCGCCCCTTTCAAGTGACCTGGATCTGACATCTTCTCAA
ACCACTGTCCGCCTCACCCACTCACTTCTCCACTCTGACTTCACTGGTGTTCCCTGAATGTGCCAAGCATGTTCTGCAT
CACAGCCTTTGCACTACCTGTTCCCAGTGCTGGGAATTCTCTTCCTCTAAGTATCTGGATGGCTGGTTCCATCCTGCCC
TTCAGATCATCGCTCATATGTTACTTTAGCAGTAATCCTTTCCTATTCATGCTTTTTCTTCCACCTTGACGTTCCCTGC
TGTATTTTTATTCATAGCACCTATGACCTACTGTATCCTTTGTTATCTGTTTATTGACTGCTTTCATCCAACAAGAATG
TAAGCTCTATAAGGGCAAGGGCTTTTTTCTGTTTTTTCACTGTTGTATCCTCTGTGCCTAGAATGGTACCTGTCACATA
ATAGGTGCTCAATGAATATTTGCTAAAGGATGGAAGGAAGAAGGGAAGAGGAGGGGAGGAGGAGAGAAAGAGGAA
AGTTGAAAGAAGAAAGGAAGGGAAGAAAGATGGTAGGGAAGAAGGAAGGACAGCAGAAAGTCTCATGTTGGCTTTACTA
AGTCTCTAACACTTATTAACACCTGCTTTGTCTTATAAACAGAGATAACACCGGCCTGTAGCCTAGTGCCTTTCGAAGG
CAACATTATCTGGATAGAAACTAATAAGGTTGTTCTGTTTATGCTGCATTTATGGCAAGAGTTACTGACTTTCCATTTA
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TAAAATTAATAATAGTATATAGGGGATGCAGAAACAACAAAAATCATGATGTAGAAATGTGGATATGGCAGAATCATGA
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GTTTTGGGTGTTTTAGTTCTATCTTCCTAAATTGATATAAGATCCTTGATGTGAGTGCTCATGTCCTGCCCCCCTCCTC
CTGGGCAGCCACCATAGTGCACAGCCCAGCACTGACAAAACAGAACATTAAGGATGTTTGCTTGTTGTATTCATCATGA
CTCAGCTACACAATAAGACATGAGGTTAAATAGTGTGCAGACAGTAAAAATACTCGAGCGTGCTTTATTTTTTTTTTTA
GCAAAAGAAATACAATAGCAAACATCATTTTGCCTTGCAAACTGGCAAAATGAAATCACTATTTTTGCCACTGGTGTAA
ATTTTATACACACACACACACACACACACACAAACACACAAGTACATACATATATACTTATTCAATCTGGTAGGA
TAAATTAATCACTAGGACAAAACCATGAGTTAATAGGAGCCAAATTCCAGCACATCCAATTGGAATGCTTGAGAATTAA
ACCTGCTAAAAATACTGACTGGAATAGGAAGACATTCATAAAACGATTAGGCACATTTTAGTGGAAGTCAGCAACAACA
AATAATTAATTGATTTAACTAATAAATTTAGATATTTAAATTGTCAAGGAATTCTTTGTTCTTCTGTTTTATAAATGGT
ATTAGCATTATCTTTTTTACTGGAAACTTTAAAGGTGTAAATACTGTCAAGAGCAAAAGCAACTTAGATTGCCTGTAA
TGACCATTACATTGACACCATTTTTTGCAGTATGATTTGCTATTAAATGTGAATAACGTGAAGAACAATAACACTCCTA
GATCACCTGCTATGAACCAGGCACTGCTCTAAATAGCTCAGGTATTTTAACTCATGTAACTGCTACAACCCTATGAAAT
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AGCTAGTAAGTGTCTGAGCTGGGTGTTAGTGCACAGTGATCTAGCACCCAAGTCCATATACTTAAACACTACCTTTGAA
TGCTGCTCTGTACCCTATATAAGGAAGCTGTGGCCCAAATAGGCAAACCTGTGACAAACGAATCCTAGAGTCTAAAACA
AAGGTTGAAAGGTGACTGTAAAAGTAGGCATTTGATCTTTAAAAACCAGGTGAATTTGACCTGCCATTCTTGACGGCAT
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GAATATGTGATCACATGTAGTTTATAAAAGCTCTCGTGTTTTTTGAAAGACAAATTTTTTGTCAATCTAGTGGTAACAT
GATACTAATTTTTTAATTAATTTTAATTTCCCTGATAATACATTTAAGCCTTAAAAAATATTGTTAGTGATTCATGTTTC
TTTTTCTATAAAAATTATTTCTAAGCCTTCCTCAAATTTCTTCCAGACTCTTTTTTTCTGATTGATTTTTAAGAATTTTA

Fig. 6.235

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AAAATATTCTGCAATTTCTCTTGATCACAACAAGTGTTGGAAATATCTTCTCCCGAAGAAAAGAATGATTCTTAAAAAA
ATACTTTAGTAGCAGTTTTTTTCTATGAAAAAATTAGAAGTAGCTTTTTCTTGGCAGCGTTTTCTTCTAGAGCAATAGG
GAGGAAAACAGAAAGCTGTAGACTGTTATCTTCGTCCATACATATGTTAGTGCTGGAACTCAACTCCAAAAACTTTGTT
CCTTTGAAAATCATATCCCTCCAGAATTGGTGGAGTGGTGATGGTGTGGTGTTGAAGGCCTATTGCCAGGACTGAGAAG
GAAAAGCTAAAGAAAGAGGGAAAAAAAATCCAGAGAAAGTGACTGCCTGGGGAGGAGGGATAGGCAAGAGACCAAACAT
CGATTCTAAAGGGAATCTTGCAAATGCTCTGGCAAGTCTATGTATGGGAACATCATTTGCCTAGAAGATGCTCCCCTTT
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GTTTTTTATTTCACCGTAAAGTTCTTTTACATATGGAATTGAATTCTGTGTGCAGTGTGAGAAGAAATCCACTTTTGTA
TGTTTCCCATATGGCTAACTAGTTATTTCCACACCATCGATTGACTGATCCATCATTTTTCCACTGACTGGTAGTGTTA
CCTTTGACACGCATCAGTACAGTTGGTCTGCTTTACCTTTCTAGCTATAATTGTGGCGTATCCCTCTATTAATTGCCTC
CTTTAGTGTTATTCAGTGCATTTTATACATTTGTTACGAAGATCTTATACATTTTTTATTCACATCCACTGTAGACTT
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ACCACTTTTTAAAATGATTTATTGACTGGCTGCACGGATGCTTCTCTGACTTTAAAAATGAATCCCTGAGGGATCCTT
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GACACTTGTCCAAAAAAAGCAATGCTTTCAAAAGACTGTTAAATAGAAATGGAGAGAACAAGCATTCTTTACTTGTGTC
TACAATTAAAGAGCATGCTTCCACATTTCACCATCAAGATTAGATATCTTTGATTAGTTTTGGTAACTTCCTCCTATTC
CAAATTTGCCATACATTTTTATCGTGAATGGTTGTTTAGTTGAATAATTTTCTGTGGTTTTTCCCCTTTAATCTCTTAA
CATTGTGAATTATTAGAACATCTCATGTTTAAAGCCTTTCATGCCATATGCACACAAATATACATACACATATAGGTAC
ATAGAAAAATATGTATTTATTGCTGCTTTATTTGCTAACATTTGGTTTAGACTTTTTAACCTGTCTTTATGATTCAGAT
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CGAAAAATTAGCTGGGCGTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGTGTGAAC
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TCTCTGTCAGCTCTGATGTTAAAGGATTTTGTTCATCCTTACAATGTTTTCTCATTAAAGCTCAAATATGCATAATTAA
TGTAATGCATTATTTTTTAGGAGATTGAAAACCTATCATCTAGATGATGTGCTAACCTGATTTTTGTCAATATCATTCT
TGATTCTGTTTTTATATCTCAATATGATACAGAGTTGCAAAATATTTCTAAGCTTTGATCATTCTTTTGGGCATATTCC
TGTAGATAATTTTGAAATGATATATTTAGTGGAGAAAATGTAAAATAATATTAAATCCTTCTAAGAAAAAACAAATGT
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TTGATTGTTAGCTTCCTGGAATATGTCCTAAATATCATAAGGCATATGGAGCTCCATGACTCCTCAGAAAAGAGCACGT
TGATTGATCAGTGATTCTGCATTAGACATGCGTGCTACAAGTTTGATTTGACTGACCCAGAGAGGAATATAACCTTAAT
GGAAACAGAGAAAATATCTTCATGTCACTTGGCTTAGCCTGCTCCTTTCAGGGGATAAGTTGCCACAGCATTCAAAAGG
GTGTAGTCTATGAATATTTTTAGAATCTCTAAAGATGAGGATTTTACAACATGGTATTCAACAGCAGAGTTTAATTTTT
CTTTTTTCTCACTTAACACTGAGTCATTAACAGTTGAGACATTTTACATGACTGTGAGCAGTTGAGCACAAAAACCAGA
TGTTAAGATTGGGTACAGTCAAAAGTTTAGACATCCACACCTGTGTTATGTTTTGTTTATGTTCTGGAGCGCCAAACTT
TGTTACATCTTTGAACCCACTTCAGACCTCAAATTACCACATTTTTTAAAAGCCTCATTAGAATGGTATCATATAGTGC
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Fig. 6.236

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TGAATCCATAGAACAGAAATTCAGTGTTTTCAGATTGCTAATCATGTATGAAAGTTTCTGAAATCATATTGTCCAACGG
GCTGTAACTTGGCCTATTCTTCTATCTCCTAAGGAAATTGAATTGACTGGACACTGTTCATTATAAAGATACAGCAGGT
ACTTCCTTGTAACCTGTGCTCTTCTATATATTTTGAAAATTATTATTCATTTTCATATTTATCAAAGTGAAAAAAGCAA
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CAAAAATAATGTAAAAGCTAATGGTCTGTCCCTGCTACCATTGTGCATATTAGTCAACAAGTACAAGTAGAATATTTAA
AAGATTTATTAGTTCCTAATTATATATAGAAAAAGACTTTGAAAATTACTTAAGCCATGATTCTACCAAGATGTAACCA
CTTTTTATTTTCTTTTTTTCCTTCCCAATGTTGACTGGTTATATGCATATTAATGGAGCTATAATAATAATTGTATACTTT
TTATCTTACTTTCTAAACCACATTATTATTCCTTAAATATTGCTCTTTCTTCTGACACAGTCTTCTCATGTATCATTTT
GATTACTACATAATATTCTGACTTAATCGAAACTTTTTGTATTTTTTGATGTTCAAGCTTCTTTTCTCATTTGTTACTA
TTAGAAATGATGGCTCTAGAAACATCCTTAGAAGTTTTCCTTATCTTTTAAATTAAACTGCTTTTATTTTACTAAAATA
ATCTTTAAGAACTGGGATTACTAGGTCAAATTCTACAATCATATTTGTGTCCCCTGTCATTTTGTAACCAAAAAGATGC
TATTTGAGTAAGACCTGCTTGATAACTTACTTATTAATCTTATTTTATTTGTCTTGCATCACAAATGAGTCAAATTCT
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GGTTTAAGTAGGAGAAATTATATTTTCAGATCTCCTTGCCTATCTGCTGGAATCACTAGTGCCACCACTTTTCACTGGT
GCTCCTTTTGCTTCACTTAACTAAAGAGTTTTCACTCAGACCCTTATGATTTCTCCAAGATGCATTACATTTTCCTGCT
GTTTCCATATACCTGGGAAATAGTTCTTTCATTTACATCTTCTGTCTCTATATTTTTCCAGGTAAGTCATGCCTCCTTT
AAATTTTTACTATTTTTTATCTATGTCTGTCTATCTCTACTAAGATGTTCTCTACCTTTGTTTCTGTCTACCTAACTAG
CTAGCTACCTACCTACCTATCTGGAACTCTACCTCTGTCTCTTATACTATGCCCATTCTTCTCTTTTCTCTTTAAAATT
TTTTTGTTGCTGTTTTCTCTTTTCCTCTATTTCTGTATCTCGTTTGTGTCAAATTGCCAGACTACTTAATTAGTATATT
CATGTTTGTTTTTGAATTTCTATTACTGTATTTTCTCTTATTAGTATTTGTTTTTATAATTATTATTTTCCTTTACTTT
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TAATTCTATTGCTTTAGTGACAATCCCATATATTTGATGCATAATATATTTATTATTAAGTTTTAAGTATTTTATAAAT
CCCTTTGATTTCTTCTCTCACTCAAGTGTTATTTAGAAGTACTTTTTAAATGTTTTCCAAAGGAATGAGTTTTTAAATA
AATACATTGTTATTAATTTCTAATTTTGTTCATCTTTAACAGAAGAGATATTTGTATAGTACCTATTCTTTGACATTGT
TGAAACTAAACTGAAAATATTAGTTAATTCATGAACACTGGATTAATTATAATTATAATATTCAAAAAATATAATTATA
TTCAAAAGTATAATTATATATAAGTTTATATAATTTATAAAGTTTATAATATAAACCTATATTTTATATATTTATAACT
TAATATAAAATTATAAAGTTTATAATATAATTATAATATTCAAAAATATTAATTTAGGCTTCCTATTTATCCTGCTTTC
TAATGTTTGTTTTCTTTTCACGTCTTTTCTGGCATTATTTTAGATCAAAGTGATTTCCTCCCTTTTCTCATTGTATTTT
TCCTTCTAGTTTGTAAGTTTTAAACTCTAATTCTATTATTTTAATAATAACCCTAAAAAATTTTCCAAATATGTAACTT
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GGAAGGTAGTTTTGTTGTGTATGCATTACTGGGTTGACAACTACTTCTCTTCACCTCTTTAAATACGATACTACCTTGT
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GATTGTCTCTCAGGCAAGTTTATTTTTTTTTATGCATTTTCTATATTTTTTTACATATGTGAGCTCATACTCTTTAGTAT
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GCTAACTATAGATTTACTTTAAATGAAATGTTCAACTTTTGGGCCACGCAAATATCCAATGCCATATTACATATCGCAA
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TGCATGAAAGATTGTAGCATGCCTAGTTATAGGTATTGACTTTTGGGTATAAGACTTTCTGTGAAGTCTGAATGTGAGT
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TAGGCAGTATATTGCTAAGCTGTAGAAGCCCCCATTTGTGTACCTTTCAGATTCTGCCCCCACCCCAGAGTAACTACTA
TTGTGATTTCTAAGATAATATTCATATTATTTACCAAGAGAGTGTGTTCTTTGTTCTCTAGCTTCTTTTCCTCAACAC
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AGCAATTCTCCTGCCTCAGCCTCCTAAGTAGTTGGGGTCTACAGGCACCTGCCACTACACACGGCTAATTTTTGTATTTT
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Fig. 6.232

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TAGTAGAGATGGGGTTTTGCCATTTTGGCCGGGCTGGTCACGAACTCCTCATCTCAAATGATCCACCTGCCTCAGTCTG
CCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCTGGCCCATTTTATTATTGGTAAATATTTGTTTTATTTTTATT
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TTTTAACCATTCTAGTTGAGTAATATGTAGTGTTATTTCATTGTAATTTTAATTTTCACTTCACTGATGTCTAGTGATT
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CTTCTCAGCACCCTCTGCTAATAATGCTGTTTGAACAAATTCTAGAAAGACTGTTGATGCCAGAGCCAACTCAGAATTA
GGCAGGTGAATGTTTTCAACTTCTGCTAATAATAACATCAGTTCTGTACTCTCCTCTGGGTTCTTTTTGCTGTATTAAA
GCTGCAGTTCCCTTAGGTTAGCTTCTATGCATAACCTGGGAATGCATATTTTAGCTTTTTACTTCCCTCCCAAAGAAAG
GAGCAGAAGAGGAGAACCAAATAGCCAAGATCTAGAAGATGAAACTGTTGTATCCATTGTGTGGATTCAGATAAGCCTC
CACCCAAAAATATGGTTCAAATGTTAAGACTAATGAGCAGCCCTACACTTCTCTCTCTCACTTTCACACACACACATA
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ACAAATGCAAAATGAATTGTGGCTTAATGTGCATATGTATATAACAGATACTTTGTTCAACTATATTATGAAATACTAT
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TATCTTTTGGTTCATTCTACAAGGATTCTTCAAAAGAAATCAAGTAATCCTAGACCCCAATATATAAAAGAAACCAACT
CATCCTAGACCCAATATATAAAAGTAAATGACATTTTGTTCTTGTCTTAATAAGTTCACAGTATTTCAGGAAACATGGG
AATACAGAATAACAGATAAGAAATATTATAAGACTTCTAGTAGAGAAATATGCTTAAAATCATATGTATGTTCCTTTAC
ACCTAAGAACCTTTAGATATAAATGCATTTTAACTGTTCTGGAGAGTTCCAACTCCAAAATAGCCTTTGTTCATATCAA
GAAAGTAAACCACCTTCTATTTCAGGTGGGCTTACTCACCATACCTGGGGCCACATTACTGTCCCAGCTCACTGAAAGG
TCATAATCCAGGATGAAACCAAACTTGAAAATTATAGTGAAACACAGTAGAATAATTTAGAAGCATATACTTTGATGTT
TTTAGAAAGTAAGGAAATAAAACTTTAATTGAACTTGGAATAAACTCAGTTCTGAGCATTCCATTCTACTCTGCAGTTG
TCATTTATAGACAGCTGTGGATCATAATACCTATAGACTAGATATCGTTATCTACTTATTTATATTAATGACAGGATAT
CCCTGGGCAAACAGCATCACCACTGTACTGTGTATTCTTGGTTGTCATGGGAACCTTTGCTGTGAACCAGCAGTGAGAG
CACTTCCATTGAATAAAGCTGCCTCTGGATAGCCATGAGTTGCATGAAGTTATTTTACTAATTTTATTTGCCTTTTACT
TGAAAGCATAAGTTTCTGAGGATGTAATTACAGTTTCCCCTATATTCTACAGAAGTAGTTATAGATGATGGACCTCCT
GAACTTTTATCACTTTGCCATACTCTGTAAAATTACCTAAGAGCTCCAGAGCATGAAATTAACACTCAGGAATATTGTA
GCCTAACCTTTTTTGCTACTCTGAATAATACTGAATTGAAGGGTCTTCCACAGCAAGCCCTCTTTAAATTATGCTTTCT
GATGCTTTACCTAAGGCTATACACTTGTCTTTAGATTCTTCTAGATTATTTTCTCCTAATACAGAACTTAGCATTTAAA
TGACAATTTTAAAAATTGAGATCAACTCTTCAAAAGAAATCAAGTAAAAGCAATTTCAGCAAAAAAAAAAAAAAAGCCT
TCTAATCTCCTACAAAACACCTCTATCCTATCAAGATATTGTGATTGAGAATTAGAAATAGTGTGGAATCAGATGTTAG
TTTGTCCTTTCCTTTTCACTGGAATTTCTCCATGCTTTAATTTTTATATCAAGAAAAACAATTCTTGCAATATTCCCTA
AGGAGAGTTTTACAAAAAAAGAGATAAAACAAACTACACACACACACACACACACACACACACACACACACTA
CCTTAAGGAATAAAGAAATTATCTGAGTGGAAAATAATGGTGCTTTCAATTTTCCTAATTGAATTAAAATAATTATCTA
AGTCTTTTTGATCTTGTCCCAAAGTGAATAAAAATGTCTTTTTTTAAATTTATGTTTCATTAGTATATATCTCCATCTTTT
CAGTATTCACCCCAAGTTTTAATTGGGTAGAAGAATATGGAAGAAATTCCTATTGCTCAGACACCATGTTTAAAGCTTT
```

Fig. 6.238

CTGAATGTGATCTAATACCTCCATTGGTTGGAGGTAATTAAACAGAGATCTGTTCTTTTAAACAACTATTTGAGTGCTT
TAAATCTGAAAGTCATGTCATAAATGTCAGACCTCTTTCTCTTTGCTTTAATCATCTCAGAAAGACTTATCTGTTAATG
GAACATCTGCATATAGGTATTTTGTTGACCACAGGTGTTCCACATAAGTTTAATCTACCTATTAGTTATATGTTCATGC
TATTGAGGACCTTTCAATAATAAACTTTACTGAGTGCTTACTCTCTTCTAAGAGTAATGCACTATGCTAGGAGACAGGA
GGGATATAAAGGTAAAGAAACCATGGCATGAATCTTTAGGGAGATTATAATTTAGTGGAGAACACTAGTGAAAGGAGGC
AAAGGAATTAATAGAACAAGACAGTTTCTCTGAGTCTCCAAAGGCACTGTAAAAATTCCTGGGGAAACTGCAAGCAAGA
GCAAAATGTTAGCTATCATAAACATTCTCATGCATCTTCAGGTTTTATCTTCATCCATAAATTTACCCATTAAATTTAG
ACATTCTACTATCTATTCCACTTGACATTCCAATTAGCAGCTCAGCCTCAGCCTATCAATATGAATGCACATCGCTTCC
CTGTTCTCTTGCTGTGCCAGTCTTTCCCCAGTGTAGTTAGGTAGTGTCTCCAATCAGTCACCATCACCATACTGTGCTG
ATTTTATATTCTGAATATTTTTTAAGCTTTTTCCTTTTTATCAATTGACTACACTAGTTTAGATCTTCATCATATTATT
GTACACAACTGCTGGGTTTTTTCTGTCTGGAAAGTCTATTTTCCTCTTTCCTCCCCAGCTGCCTCTTTCTTCTGCCTCT
GGATGCATTTCCTCATTTTCCTGCCTTCCAAGATGTATTTAATACATTCCTCTGTGCTCTCATATGCTGATACATGTCT
GTCGCTGTATTTGCTGTGTAATATCCAAATTATTTGTGCATGTCTTTGTTTTTCTCCAAAAGTTGCAAGCTCCTTAAGG
TCAGGAGCTGTTCTTTAATATATCTACTCTACCTAGTGTAGTCATGCTTAATATTTGTTGAAGTAAACAAATCTGAACC
CCAAATGTATTATGTAATCTCCATATCCCAGCACAGATAAAGGATATGCTCTTGAATTGTTTTATTGGGAGAAAACAGC
TGACAGATTAGGCTACACAACAACTAAAAACTAAGAAATGACTACATGATAAATTGTAATGAAAATCGGAAGGCAGACT
GACTGAGGAATATATCTCTAACAAGTATTCAAAGATATAATTTTGTTATTGTTAAAAAGAATACAATGAATGGAGAGAG
GGTTTGGATTTCACATTCAGGACTTCTGAAGACCAAGTATAAGAGATTCAAAAGTGATAATGTGAATCTGATTAGAAAA
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TGTAATGATCCCACTGCCCACGTAGTGACATAGGACCATAGGGAGTTTTTCAACACTTGCTCACCTCCCTCCTCCCACC
CTTTTGGAATCCTCAGTTGTTCCATATTTGTGTCCGTGTTGCCTCCAGTGTTTAGCTCCCACTTATAAGTA
AGAACATGTGGTATTTGGTTTTCTGTTTCTGTTTCAATTCACTGAGAATAATGGCCTCCAGTTCCATCCATGTTGCTGC
AAGGAACATGATTTCATCTTTTTATGGCTGTATAGTATTTCCTGGTATATATGTAGCACATTTTCTTTATCCAGCCCAC
CATTGGTGGGCATATGGGTTGATTCCATGTCATTGCTCTTGTGAATAGTGCTGTGATTCACATATAAGTGCAGGTGTCT
TTTTGGTAGAATGGTTTATTTTCCTTTGGGTATACACTCAGCAGTGAGATTGCAGGGTCAAATGGTGGTTCTATTATTA
GTTCTTGAGAAATCTCCAAACTGTTTTCCACAGTGGCTGAACTAATTTGCATTCCTGCCAACAGTGTGCAAGCGTTCCC
TTTTCTCCACAGTCTCACCAACATCTGTTACTTTTTGATTTTTTTAATATACTAGCCATTCTGAGTGGTGTGAGATAGT
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CCATTTGGTTCAGGGCTATTTTTGGACATTAGGTTTTTTTATTACTGATTCAATTTCATTACTTGTTATTGGTCTGTTCA
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TTTTTGTGCATAGAGATGTACATAGTAGTCTCTGAGGATCTTTTATGTTTCTATGGGATTGGTTGTGATGTCACTTTTG
TCATTTCTGATTGTGCATATTCAGATCTTCTCTCTTTTCTTGTTAATCTAGCTAGCAGTATATCAATCTTTTTTTATCC
TTTCCAAGAACAAACTTCTCATTTTGTATATCCTTTGTATAGTTGTTATGGGTCTCAATTTCATTTAATTCTGTTCTGA
TTTTAGTTATTTCTTTTTTTTTCTGCTAGCTCTAGGTTTAGTTTTGTTCTTGTTTTTCTGTTTTTTTTTTTTTTTAGGT
GCGATTTAGGTTGTTAATTTCAGATGTATCTTCTTGATGTAGACATTCAGTGCTAGAAACTTTCCTCTTAACGCTGCC
ATTGCTGTACTCTAGAGGTTTTGGTATGTTGTATCTCTATTTTTGTTTGTTTCAAATAACAGTTTGACTTCTGCCTTAA
TTTTTTGTTTATTTTAGAGTCATTCAGAAACAAGTTGATTAGTTTCCTGTATTGTGTGGTTTTAAGAATTCCTCTTGC
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TGCTTTATGACTATGTGTTCAATCTTGGAATATATCATGTGCAGATGAGAAGAATGCATATTCTGTAGTTGTTGGGT
GGAGTATTCTATAGATGTCTATTAGGTCCAATTGGCCAACTATCAAATTTATTAAATACAAAATTTTTTGTTAGTTTTT
TGCCTGTCTATTGCTTTCACTCGTGTGCTGAAGTTCCCCACTATTATTGGGTGGCCATGAAAGTCTTTTCATAGGTCTA
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TGTTAAAACACTATGGCAAGAATAAAAACCTCACATATCAATATTAATTTTGACTATGCAAAAGTTAATATTGATATGTG
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TCTGCTTGCATGTGCTTTCATGGTAACAAGGATCATCCTTTCCTTTTGTTTTCATGTTTAGAACTCTCTTAAGTATCTC
TTGTAGGTCTAGTGTGGTGGTGATGGATTCTTTTAGCAATTGCTTATCTGAGAAAGAATTTATTTCTCTTTCATTTATG
AAGTATAGTTGGTGGGATATGAAATTATTGGTTGGCATTTTTTTTCTTTAAAAATGCTAAAAATAGTCCCCCAATCTCT
TCTGGCTTGTATGGTTTCTGCTGAGAAGCCTGCTGTTAGTCTGATGGGTTTCCCTTTATAGATGATATGACTGTTTTCT
CTAGCTGCCGTTAAGTTTTTTTCTTTCACGTTGACCTTGGATAGTCTGATGATTGTGTGCCTTGAAGATGGTCATATTA
TATAGTATTCTTCCAGGAATTCTCTGGATTTCTTGTATGTGCATGTTGACTTCTCTGGCAAGATTGAGGAAATTTCCCT
GAATTATATCCTCAAATATGTGTTCCAAGTTGCTTAGTTTCTCTTATCTCAGAAATGCCAATGTCACTTTACATAACCC

Fig. 6.239

245/375

CATATTTATTGAAGGTTTTATTAATTGTTTAAAATTATTTTTTTCTTTATTTTTGCCTGCCTGGGTTGATTCAGAAAGC
TAGTCTTCGAGCCCTGAAATTCATTCTTCTGCTTGGTATAGTCTGTTGTTAAGGCTTCCAACTGTATTTTGAAATTCCC
ATAGTTAATTTTTCAATTCCAGAAGTTGTGTTTGGTTCTTTCTTAATATAGCTATGTTGTCTTTCAAATCTTGGATCAT
TTTTCTGGCTTCTTTGTGTTGGATTTCAACTTTCTCTTGGATCTCATTGAGTTTCTTTGCCATCTAGATTCTGAATTCT
ATATCTGTCATTTCAGACATTTCATTCTGGTTAGGGTTCATTGCTTGGGAGCTAGTGAGATTCTCTGGAGGTGGTAAAA
CACTCTGACATTTTGTATTGCCAGAGTTCTTGTGCTGGTTCCTTCTCATCTGAGAGAGCTGATGCTTTTTTCTTTTCTT
TTTTGAATTTGCTATTGTTTGGATGGAGCTTGTTGATTTTAAATTCTTTTTTCCCTTGTGGGTATGACTGTGGTGTAAA
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AGTTTGTGCGGTGGCTGAGACGTTGCTTCTTGTAGTGATGTAATTTTGTTTTGTAGTGTAATTCAGGCTGCAGCCCAGT
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AGCGCGTTTGCCTTCAGTGGGAGTGGAATTGCTGGAGAAGCCCCAAAAGTGGTCTCTTTCAGCCCACACTCTCTCGGTT
CCGCTGGGGAGAGCCACCTTCGAGTCCGCAACAGTACACTGAAGAGGGATGAGAGAGGTGAGCGATGACCCCTTCTCGA
CAACCATTCCCTGGCTTTGGTGGCGCCCCCTTCAGTGGCTAGCGCAGTGCTCCTGTTTCCTTTGACCCAACCTTTGACC
CAAGAGGGGCTTTAGCCGGCTACATCCCCCTCCCTTAGGGGCCGACTGAACCGAGGGCTAGATTTCTAGGGGAGTGGGT
CCCTTCCCTTACCACTTTTCAGAGCTGGTGGGTTACTGTCCCCCAACTGAACAAGGAAGCCGACTGGGGAACCCAGTAG
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GCCCCCTACCATCCTGTGCCTATAAAAACCCCAAGACCCTAGCGGGTAGAGACACAAGCAGCTGAAAGTGGAGAGGACA
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CTGCAGTCTTCTAATGCTTTATGTCTCTTCTCTATCGCATCCAAGCATTCTCTCCTAGACTATCTGCTCAGAAGGTGTC
CACTTACTATTCTGGCGTTTCTCTGTTGGGGAGCCACACACTACCTGCTTCTGCTCAGCCATCTTGATCCCTTTCATGT
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TTGCTTTTTTTTCTTAGAAATGTATAGAACACATCCATTTATTCCAACACTCCAAGTGAGGAATAAGGTTTGGGCTCAGC
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GAGAACTGATGTAGACCAGAAAATAAATTTCTAGGTGTTTTTTGTTTGTTTGTTTGTTTTGTTTTGTTTGTTTGCTTA
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TGGCTATACGACTTCTAGAAAGTGCCTTTATTACATATCTGACACATTGCAAATTCACAAGTGGAGTACAAACAATTTC
AGCAGCTTAGATGACATTTTCCTTCCTGCCAGTGGTCTGAACTCACCAGGTAGCAACACCCAAAGCATTACATTCTGTC
TCCCTGAGTTGCATTGTATTTTTGATATCACAGCATAAACTGTCAAAGGAAGTATTTCTCTAATTTTAATTGGGGTTAC
TAGGGTCAAAGCCAAGTTTCCAAAGCTCATTTTGTTTTTATCTTATTATCATGCATTTATAGTAAGCCATTTATTTTTT
GAAGCAATCCTTATTATAACTTGGAAAAAAACTATTTCGTAATGTGGTCAGATGTGATTAGATCACTGTTTTATGCTCA
GACGTATGTTCCACCTTTTCCCATAATGCTGTGACATTGGGGTTTGTATAGCTTCATGAATCGAACTTAAACAGTAAT
GCATTTTCACAAATAAATAGAATCACTCTTCCTACCTATTATGATGGATCTTAAAATATCCTGCCACATCTCTCTCGTT
ATTCATTCAGTTTCTGATCTTAGTAATTTACCTATACATTAAAACATTGTAATTATGTATTTAAATCACCAGGACACCT
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AGATTCTGGTTATTTAATAGGCAGTTTAACTTGAGAAACAGAGTAGATGGGAAAAATGAGAACTTACTGTGCTTTAACA
ACTTTACATTAATTTGTTGGTTCATTGTGAGCTAGTTTATTACAGTATATTGAACTGTTTACCAAATAGTAAACTCGAT
TCCAGTGTTTAGAACATGCTTTTTTAAAAATGACATTCTTAACCATTTTGCCTTATTGCAAGGCATTTACGTATATACAT
TGAGAAGCTGTATCTGATCATGTTTCTGCAGAGATGTGTTATGAACTGCTTTAGTACACGGATTTTTGAATCTTAACAA
AGGATTTTGGCCACCTGCAAAATAAGAGGTTTTCATTCTTTTTAGAATAGTCTTTTTTCTGGGTCCCCAGTGTATATTT
TGCCAAAATGCCTAAAATATTGCAATAAAAAAACTCAGAGTTTGGTACCAATCTGACAATTAATTTTTTTAAGCCTTTA
AAAGTATATAAACAATTTTAGCCAATGGACACCTCTCACTGAATTGACCATATAGATCATATTAGTCCATTTTCACACT
GCTGATAAAGACACCCTTGACACTAGGAAGAAAAAGAGGTTTAAGGGACTCAGTTCCACATGGCTGGGGAGACCTCACA

Fig. 6.240

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ATCATGGCAAAAGGCAAGGAGGAGCAAGTCGCGTCTTATATGGATGGTGGCAGGCAAAAAGAGAGAGCTTGTGCAGGGG
AACTCCTCTTTATAAAACCATCAGATCTTGTGAGACTTATTCACTATCATGAGAACAGCACGAGAAAGACCCACCCCAT
AATTCGATTGCCTCCCAGGACACATGGGAATTGTGGGAGCTACAATCCAAGATGAGATTTGGGTGGGGACACAGCCTAA
ACATATAATAGACCTATCAGTTCCCTACACTAATAAACTTCCCTGGTATTATTTCCACAGCACATGTACCCTGGAAAAT
TAGCTCCAGGTGATGAGAAATTCAGTTGAGGGCAGTAAAAAAGAAACCAGGTATTCTCACACTAATTTGAGGGTTTAAT
CTCACTGGGCCTCCTGTTTGTTTTTAGTGCATTGGAGGAAAATTAGATTTTCTGAGTAAATAGAAATGAGCAATGTTCC
TATGTATATACACTTAACTCTTCAAAAAGAACAACATAGGTCTGTACTGGCACAAGTAAAATGTTGTAGAAATTGGGTC
AGGTGCCAAGTGTGAGCAACCTCACTCTCCCTAATCAGACAGCATTTCTTATATTATTTCTGGATTAATATAAGTAGGT
AATCTTGAATAAATTCTCTAGTGAATGTTCTACATCATTTATTGTCAGTGAATGTACAGATGGGATAGTCCCAGTAAAT
TTTTTTAGAAAACCAAACCATGTTCAGGATCATGGATACTTGTATTCAAGGTTTTCATGGGCATTCAAGGAAGAAAGAG
GTGATGCAACATGCCGTAAGCCAGATTCTCTAGAAAACAGACTTGGAGGCAGAGATTTAGGCCCAAGAAATTTGTTTGG
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CTTAGCTGAGAAGACTCCCAGCTGCTGGGGGAATGAATGCCTCAATCCTGAATGGGTATCTGGGTTGCATATTTGAGCA
AAACATCCTAACTTTAGTAAATAAAGCTACAGCTTTTTCTTATTTCTCCTATCTGCTTCTTGCCTGGGCAACCTAAAAT
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CTATAACATTTATTGTTATTAGATAGTTAGATTAAGTAAGAAATAAGGTATTCATGATTCTTTGAATCTGTGTGAATA
TACATATAGTTAAATAGTGACATTGAAAGTATGGTGAATTTTTATATCATCTTTCTGGAGAAATACTGAGGAAAATACT
TGAATTTTGCATAACCAAGGCATCAGTTACTATTCACAATGAGACTACAGAGAAAGCTTTCCAAAATGTTTAAATGAAA
TATGCTTTCAATGTTATGTGGTTTTCCTGTGATGTAGCTACTTAATTAGCATTGTATCAATCACCACTGACATCAAATA
TGATAACTTGCTTTACTGGAAAGTCACTGCTCAATCTCATGAATGAAATTGATGAGGTAGAAGGTAATGGTGCATTGCC
AAGAAAACAAGAAAGAAGGGAGCTAAAAATTGAGAGTTACCTACTTTGCAGTATCTGCTTTATATATGGTATCTGATTT
CAGTTTATCTGAACCCTCCCCTGGAAGTAGCTATTATCAACTTTATGTTATTTACTTACTCATTTATTCTTTTTAAAA
AGAATAATGAGATGTTTTAAACATAGAGAAAAGTGCACAGGGCAATATAAAATCACATACATAATCATCTCCCAAGAGT
AACTAATGTCATTATAGGTAAAGTTTGCTTCATATCATTTTAAATATAAATATTGCAGATATGCTTGAAATATATGTTA
GGCCATATGTGTTCAAGCTGAGGAAAGGTAGGTTCAGAGAGAAATAATCTTGGCCAATCTCACTCTGCTAGTAAGTAGG
GCTAAGATTTGATCGTCTATACGTGGATCGTGGAACTCATGTTCTTTCCCTCCACTATGTATACTTCCTCTGTACTCCC
TGAAGACTTAATCTGGATAGAGATACATTGCCTAGAGTTTCTCTATAGTGGGAGAAATGAGCCTTTTACTTTCGTGGTA
CCACGTCAGTTGCCAATTGATTCTGGCACATAAAAATGTATTATATCTTTACCTGTTTAATTATTTTCTGTACCACATC
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TCCACAGTTGCTTTAGAAGAAAGAAAAAGAAATCAGTTTGTAAAATGAGATAATTGTAAGGGTATCTCATCTTTGTAG
CCATATGAGAGAGTCCAAAGAGCTAAGCAAATATTTGCGAAATGATATTTTTACTATACTGGAAGTAATAAACAATTAA
AATGTTGTTATTAAGGCAGTGCTGATATTATAATTTTACTATCTCTAGAGGAATACCAGAGATCTTATTAAACACATGC
TTTTTTAAAGTTGAAATCTTAGATAACTATTATCATTACTATATGTGTAAGAAAACAACGGCATGGAGAAAGATGTGCT
CTATAGAAAACTGGTAGGTTATTAAAATATAAAGAAATAGGGAGAAAACTGAAAATTGCATGATATTGTCAAGTCTCCC
TTGGGACTCACCCACACAACAGTTCTTTCATTGCAAGTTTCTTTTTTCCTTAATGAGTCATTTTGAGTTCTTTTTAATG
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TGAAGCCATAAAGACAATAAGAATACTGAAACACCATGTATCTGCTTTCATTTAAATAGCCAAACAATTCTGTATTTTC
CAAGTGGGCTTCCTTAATATACATATTTTAAACCTTGTAAGGTAATTCTCCAGAGAAATATGGAGGTCTAAAAGACAAA
GTAATTCCATTTATCACCTTAAATCTCATTTAATTAGGGAATAATTCTGATATATCAAGAAAGAAACTAATTACTGTCT
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GACCACAGCAACAATGTTTTTTTTTGTTTTTTTTGTTTTTTTTTTTGAGATGGAGTCTCACTCTGTCGCCAGGCTAGA
GTGCAGTGGTGTGATCTTGGCTCACTGCAACCTCTGCCTCCAGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTA
CTACCACACTCAGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATATTGTCCAGGATGGTCTCTATCTCTTG
ACCGCGTGATCCGCCCTCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCGTCACGCCTGGCCAACAATCCTT
ATTAATATTAAAATTTAAAAATTGGCTTGAACTGGAGAACACTTCAAAGCTCATTTACCACAGAACTTTGTCATTTTTC
TCCTTATTTGACTCATCTCAGTTGGAAAGCACAGATGTTTATGCGTCTGCCTTGCTCCCACTCTCCCTAAAAATTTTAC
TTACCAGCTAAACCGCCAATCCTAATACATCCAACAATATTTTACCATGAAAATACATTCAATTTTTGTATTTAGATGC
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AATTTTATTAAAAGAACCACAATACAGAGCAAAGAGAAAAAGAGAAGTGTCCCTATTAATGGTATTTCAAATGCGTATT
TAAACAGCTTATCTACTCCAAACTAATTTCTGATAGATTAAATAGCTGTATTCCAAATCTTACAAGATGCACATCTCTC
CTCTATTTCTTTCTCGGCTTGCTTCAGCTGAATAGCTCAAATTGTTTGGCACTGGTAAAGCATGAAAATGTGAGATAAA
AAAGGAAACGAAGCTACAGCCTGAGTGGCCTACAGGCCTTAGAAATGGCAACACTTTAAAATTCATTATATTTTACATT

Fig. 6.241

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GCTTCAACAGTTACACATTTTTTTTTTTTTTTTTTTTTGGCTCTTGATGATGTCAGAAGATTTATCTGGGATGTCTGT
CTCCACGGGTAAATAGTGACCGGGGTGAAAACTGAGGGAACTAGGGAGCACCTAGACCCCAAGCCTTAGTAGTCAGCTC
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GGGGAAGGCAGGGAAGAAATACTATGGCAGACAGTCACTTGTGGTAGCTCTCTAAAGGGATCTGGCACTTCCTGCCATT
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AGCTATTTCTCCTCCTAACGTCTGTAACTCACCAGATTTCACTAATTCAGAGGTTGCTTTGAAACTCAGAGTCAAATTC
ATAGCCAGGGACTAAGTCTTCATGATGTGCCTTTTTGTTTAGCCTCCTTTCCGGCATGTTTTTTGTGTTGCTCTCCTTT
CCTGATTACTTTTTATTAGTGCTATCTTAGTTTATGTATTTTTATAAACTGCCTTAAATGCTTTCTGGAACCACTGTGC
ATTTAATCAAATAGACTAATAACTAACTAGGAAATGATAGGGCTGATAGCATCGTCTGACCCATGAGGAAGCTGAATT
TAAGTAGCTTGTCCAAGGTCACTCAGCAAGTCCCTTGTGCTGTGAGTCTGGTCTTGGCTTTCAGTCAGTATTTTCAAG
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CTTGAAATACCTTCTCATGAAGCATTTCTTATCCTGAAAAAGCATCATTGTTACATCTCTTCTTAGACGCTCCTTTGCC
TTCTGTTTTCAATCTAGAAATTTGTTTCTCCCCCATCTCCATACTGACTAGGATTTTGTTTGCTTGTTTCAGTTTAGAT
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TGATAGACAACTCTTAGGCTGGAAACTAAAACAAGAAGGCCTATTAACTATTTTTGCAAAATAAAATTGTATTCTTAAA
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Fig. 6.242

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Fig. 6. 243

AAATAATTTCTTTAATTTTGTCATAGATTTTAATTGAAATTGGTGAACATATGCACACATACACAAAAACTGTAGATTT
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Fig. 6.244

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TAGTGCCCTCTATGAGTAGGAGTACAGAATGTTATCTTATTAACAAGAACCAGGGGACAGTAGGAATGGACAACAGCAT
TGGTTAGTGGCACAGACCAATTCAAATAATATATTTTGTGTGATTTTTTTTTTCCTTACCAGCAGTTTGTTGGTGAGGC
AGAATTAAATAGGGAAGAGAAATGCACATTCCCTATCTCTGTCCCTGCAGTTTCATTAAAATTCTGACCAAATTATGTGA
CTCAGCATTCTCAGAGAATAGTCTCTGACAGGTAGCACTTACAGGAGACAGACCCACACCTTCTAGCATGTGATTCTTA
AAACTCTGTGTGCAGACTGGTGCCCAGCTAACCACATAAAATTTACCAGGGGTGCTTATTAAAAATGGAAATTCCAAAA
TCTTACCTCCAGAGATGCTATCTTGGTGGGCCCTGAGAACATCATGTTTTTGACGAAGTCGCCCAATGCCTTTCTGGCG
TGGTCAAAAGCAAGAAGCACAATGCCTTTTTGTGCTTCTTGGTTTTGACCAAGTCACCCAGATGATTGTGGTGCAATGC
CTTTTTGTGCTTCTGCCTTTAGCGTTGGTTTGCCCAGCCAGCACCAGATCAGGCAGCTCTATTAGCTGCTGCTATCAGC
ACGTGGATGTTCTCTCCTCTTCGTAAATGAGATCTCCTCTACTCTCCCAAAAGTCCCATATTCTTTTGGGACTCTTTCT
TTTGTTAGCTCTTGCTTGTCAAGAATGGAATGGGGAAATCATTTCCTATGGAGGAAGTTTTTCTTTGGCTTTTGGTAAC
TGACAGAGTGAACAGATTTCTTCGCTGGGTATGCACTGTGCCTTCTCCCACCTATTCCAGAGCTGTCACTCAGGAGCAC
TGTTCAAGGCCATCCCCTGCCTTCCTTGTGTAGAGGGCTTTCTGTGACCAGCAGACAGTCAAAGACATCGTATCTATAC
ACAGATGGCACATTGATGAAAACTACTGATGTTTGCCACTTATTATTTATTCTTTTTTCCTAAATATTTACAAAAATTA
CTTTTCTCTTTTGTATGCCACATCTGACTATGTGTGTTAGTTTTTGTTTTTTGTTTGTTTGTTTGTTTGTTTTTTGAGA
TGGAGTCTCACTCTGTCAACCAGGCTGGAGTGCGGTGGCGTGATCTCAGCTCACTGCAAGGTCCGTCTCCTTGGTTCAT
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Fig. 6.245

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GCCATTCTCCTGCCTCAACCTCCCAAGTAGCTGGGACTACAGGCACCCGCTACCACGCCCTGCTAATTTTTTTGTATTT
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TGTCTAAGAAAGCAGACCCTTCTACCAACACTACAATGTCTCATATTGCAGGAGGCCTCATAGTTAGGAAGACAACTGT
TAGCAAAGCCCTTGTTTCTCTCATGAGCCACCAGTGTCTGGCATATCTCAATGCACTCTTCATGATGCTCTAAGCTCTA
AGTTAGGCCTATGGTTGCATTGAAGCTCTAAGTTAGGCCTATGATTAAAGTCTTCTGGCTCATAATGATAAAAGCCATT
ATTGTAGGCAGTTAGAACCTGTTGAAGGACAGAGACGTGATGGATTACAGTCTGAGATAATGTAAGTTGTTTAAAAAAG
TGAAAATAAAAGAAAATCAAAACTTTGCTTTACCTATTCATTTTTAAAATAACCAAGGCATACCCCTTTTGCTGTCTTA
AGTTTCAGACAAGGGTGCAACTTCTACAGTCATTCCTTGGTGGCTTTACATGCTTTATTTGCCATGGGCCATTAGGTGC
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GGTAAGAATTTTAAGTGGCATTCAAACACCCCTCTCTTTTTGGAGAGAGGACTAACAGTACAGGAAGATGCGGGGAGGG
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GGTTAGATGAACAGCCTTTGGTTCTGAGCTGGCTCACCATTCCCAGGCTGGAAATTATTCACTTAAATGCAGCTTTTAA
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GTAACATATGATCATGAATATATGTATAAACTTCACCCAGAAAAATCCATAAAGCTTTTGACAATAAATGTGTATAATC
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GAATTGATTTACTGATAGTTCTGGAGGCTGGAAGTCTGAAGTCAAGAGAGCAGGGTTGGTTTCTTCTGAGGCCTCTCTC
CTCAGCTTGTAGATGGCTGACTTCTCTCTATTCCTTCACGGGGTCTTTCCTCTGTATGTGTCTGTGTCCTTAGCTCCTC
TTATAACAACGTCACATTTGATTAGGGCCCACACTTATGACCTCAACTTAATCACCTCCTTTAAACCCTGTCTCCAAAT
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AAAATGCTGGTTCAGTTTGTTGTATTACTTTCTTCAGGTTTTGTTATATTCTATTTTTCATAATTTCTAGAGCCAGCAT
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ACATGGTGCCACAATTTTATAGAAAATTCTAAAAAAACAAAACAAAACAGAATAACCATGTTGCTCTCGTACCAAACGT
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TGGGAAGCCACCTAATTTTAAGAGAAAGCTTAATGGATGTGTGTGATTCAGTGCAGGGACTGCTACCGCTCTTAATCCT
CGAAATATCCTGCTAACCAGGTTGGCTTTAGTGGGTGGAAAAGTGAGGCCCATACATATTCAAATTTGTATTTTGAAAA
GATTTTTTTTTTGTCCTCCAATGCTTTTGCCAGAATATAGAAATTCAAAGTATGTGTATTTATAGCAAATACGTAGATG
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TGCCCCTCCACACCTGTGGGTGTTTCTCATTAGGTGGAACGAGAGACTTGGAAAAGAAAAAGACACAGAGACAAAGTAT
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TTATTGATCATTCGTGGGTGTTTCTCTGAGAGGGGGATGTGTCAGGGTCACAAGGCAATAGTGGGGAGAGGGTCAGCAG
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Fig. 6.246

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ACAAACACGTGAACAAAGGTCTTTGCATCATAGACAAGGTAAAGAATCAAGTGCTGTGCTTTTAGATATGCATACACAT
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GGACGGTCAGGTCTTTCCCTTCCCACGAGGCCATATTTCAGACTATCACATGGGAGAAACCTTGAACAATACCTGGCT
TTCCTAGGCAGAGGTCCCTGCAGCCTTCCGCAGTTTTTGTGTCCCTGGGTACTTGAGATTAGGGAGTGGTGATGACTCT
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TCCCCACACCCGAGATCTTTTAATATTCTAACATACTCTTATGTTCTAAATCAGTGACACTTAGAAAGAAATGTTGACT
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AGTGGTTACTATAATCAGTAAAGATTTATAACCAAAGTATAAGGAATTGGGGAATTTCCATATGGTGTGTCCTCACAAA
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TGCCTTTTCCCAAGTAATTTAGTATTGTCTTATCCTGCTATGTCTTCCACAAAGGGAAGATGATAAAATCTTTTTAATT
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ATCCATTTTCCTATGGATTTTTCATTTTGTAATATTTCTTTCCCATTTATAATCATATAACATATACATTTAATAAAAG
TATATACAATATATATCAAGCATATATGGTATATATACTATAATTTTGTCTGTTTTCTACTTCTTTCTACTTATGTCT
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AGAAGGCCTCCTTATACTGATGGCTAGTTTGACTCATTATAAAGTCAGTTATTGTTCTTGGTTTTATGTCTTAACAAGG
CATCCCCTCCTCGAACCTTAGAGGAATTGATATCTGACTTCACATGCTCTAGGGGATGCCATGTAAAATTTTGTAGAAA
TGTTTAGTATTCTGGCATGTGTGTCTCTAACTTTGTCAGATGATTAGAGATCTGTGATTAGTTAACAACCACACAGGAC

Fig. 6.247

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TGAATTAGCTTCCTTCCGTAACTAAAAGAATTGAACAGATTGAGTAAATTAAGTGGATGCCTCATTAGCTCCACAAAGT
TTATTAGAATTAGAGTCAAAATCTAATACAGGGCTTTGGACTACTAATATCTGCTAGCTACCTTTGGGATGATTTCAGT
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GGTAATATTAAAATACTGATACCTGGCCCCAGCCTGGAGAGATTTTGATTCTATTAAATTGCCAGAGTTAGGGTTCAAG
GCAAGGTACATCCAGAGTTGACAACCACTGGATTTGAAGCCAAAATGTATAGAATGTGAAACAGGTAAGCACTGTTGGA
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CAGAAAGTTGCTTCCCAAATGAATACTTTTAAAAATTAACCTGGTTTTTTCAGTACATAAGACAGGGTAAGGAGAAAAA
GTTCACCTGGTTTTTAAAAACACTATTGTTTAAACTTTAACAGAATTATCTTCTCAAAATACTTAGAAATGGAGTAAAT
GTTTCTGCTTTGATAACACTGAAACCAAAGCTAGAGAGTACAGTTAAAAGGGCCATTAAAAACAGTTTTTATTCTATAA
AAATAAATTAATCATCGAATATTCATTATAAATTCAATCATGAAGGAAAATACACATTAAATTATTTATACTAAGATAA
ATATAAACCTCTATTGGCAAACAACTTCGTAGTTAATTTTTCTAATTTACCACTTTCTGCATCTCATGCAAATTATGTC
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CAAGTAGCGCCTACTTTGTTTCAGTGGTATGTCCTCTGCAGTTCAAAATCCTTCAGTATCTCTTAATTAATTCATAGAC
TATTTCCAGTGAGGTTTCACTGAGAATTCCTTAATGTCAAGAGCTCTCTCTGTATCTTAAGCAGTTAGTGTCATTGAAA
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AAGAATAAGGAGTCAGATTAGAGTCACATTAACGGTTCACATTTTCCTAGCTGTGGGACTGTAGGTCGTTATTTTCTTG
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GCTGGAATGCAATGGCACAAACTCAGCTCACTGCAAACTCCGTTTCCTGGGTTCAAGCGATTTTCCTGCCTCAGCCTCC
CAAAGTAGCTGGGATTACAAGCGCCCACCACCATGCCCAGCCATTTTTATTTTGTATTTTTACTTGAGATGGGGTTTCA
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AGGCTCAACACCACATGGAAGTTGCCAAGCTTGGGGTTTGCACCCTCTGAATCCATGGCCTGAGCTGTACCTTGGCCAC
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CCCATGAAACCATTTTTTTCCTCCTAGGCCTCCAGGCCTGTGATGAGAGGGGCTGCCATGAAGACCTCAGACATGCTCT
GGAGACATTTTCCTCGTTGTCTTGGGGTTAACAATTGGTTCCCCGTTACTTGTGCAGATTTCTGCAGCTGGCTTGAATT
TCTCCACAGAAAATGGGATTTTCTTTTCTATCGCATTGTCAGGCTGCAAATTTTCCAAACTTTTGTGCTCTGCTTCCCT
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Fig. 6.248

TATAAAACTGAATGCCTTTAACGGCACCCAAGTCACCTCTTGAATGCTTTGCTGCTTAGAAATTTCTTCCACCAAATAC
CCTAAGTCACCTCCCTCAAGTTCAAAGTTCCACAGATCTCTAGGGCAGGGGTAAAATGCCAGCAGTCTGTTTGCTAAAA
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TCTTCTTCTAAGCCCTCCTAACTGTTCCAACCTCTGCCTGTTATCCAGTTCCAAAGTCACTTCCACACTTTCAGGTATC
TTTTCGGCACTGCACCACTCTACTGGTACCAGTTTACTCTATTAGTCTGTTTTCATGCTCCTGATAAAGACATACCTGA
GACTGGGGAGAAAAAGAGGTTTAATAGGCTTACAATTCCACAGGGCTGGGGAGGCCTCACAATCATGGCGGAAGGCTAG
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CAGGTTTCTCCCACGACATGTGGGAATTGTGGGAGTTACAATCAAGATGAGATTTGGGTGGCGACACAGCCAAACCATA
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Fig. 6.249

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Fig. 6.250

256/375

GAAGTCTTCTTAAATTCTGATTAAATAATCGACTTTCTTTACAACTACAGACAAATTGCAACAGAATCTGTATTTTCAG
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Fig. 6.251

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TGACTAGCTGATTTATGGGATTTTATGTTCTTTAACTTCGAAGAAGACATACAATTCAGTCTCAACAGTTTTTACAATC
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ATGTTTGTTTCAGTTGATGAAGACTTTTGTTTGGATGTAAGCTTTCAACTCATTTAGATAAATACCAAGGAAGTTTTTC
AATATCATTATTTTAATGGATTCATGATATTCACATTGATTGGCTATTCCTTATTTTAAGTAGTTGGGCATTAAAGATA
TTTACATCTTTTTATTATTTTGTAAGACACTGTGATGACCTTCATGATAGTTAAATCTTCATTTGCACTGTTATTTCCT
TCTGACTGTAGCCATTGTGTGTAAGACTGCAAAGTGTAATATATGCAGTGTTTAAGAGTAGATTAACAAGAAAAGCTAA
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```

Fig. 6.262

GAGCTTGATTAAATAATGGCATTATACTGAGCTTATTCAAGTATTTGGATAACTTTTCTTTACTGAACTGAAACTGATA
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ATGTTCCTTTGGGCACTCTTTGCAAAGTATTTCTGTTTGATTGCATATGATGAATAGCTCCACTACTTCCAATGTATTT
CAGTTGTCAAATATTTATAATTATTATTCTTGGGAAAGTAACTGAGAAGGGAGTTCAGGAAAGACTTGGACAGTTCTTT
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CAAAACAATAGAGCATCTCTGTGCTGAGTATTGGAATTTAAATTTTGAACTTCATTACTAAATAATGTGGAACTATTGG
ATAATTTCAAGCAAAGGACTCACATGTTCATGTCCTTGCATGAGTTTGCTAAGATTTCCATTTTAAGATAATCTTGGTA
GGTAAGTGAAGGATAGATTTGAGGAGGAAAAAATGGAAATATTAACTCTAGGCAAAACATAGGGGGAAAGATAATTGAG
AGAGATTAAAGAATGTGTAGAGAGGTAGAAGATATAGTCTGGTCTCTGGAATCAGATGAATTGGTTCCTAACTCTGACT
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GATCAGTGTTAGCTATTATCTATTGACTATTAATATTATTGTTACTATCAATAGTATTCATGTCTCTAGGGTTTGTGAC
CTGATTAGCAGTTATTGTCTGGTTATTGGCTGAATGGTGGCCAGTACTAGGGAATATAAGAAGAAATGTGGGGAGAGGG
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CAAGATTTAAAAAAAAGGAAAATTATCTACTCTTTCAAACTTAAAATTTCTGGATTTTAACAGTGTCTGCTGTTTAAAC
CCAAACAGTGTCTGAATTTGGCTACTGAAGAATAAAATGTAGCCCTTTTTCAGCACACTGTATGTTTACCCAGGTCCCA
GGATGCTTAAATAAACTGGCGTGTCTATTCAAATCCTGGATAAGAAATAATTTTTCAAAATAAAAATTATCTCACAGAA
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Fig. 6.253

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TAGAAAAACTGTGGGATAAAGATACAGCATTTCTCTAAGACCCTGCTGCCTTCAGTAGAATTATTTAATATCCTTTCTA
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ACCCAGCCGCCTTCTTCCCTGCATTTTGGTGGCTTGACACCATTACTGTCGGGGCAGGGTGGGGTGGTAGGGGGGTGCT
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Fig. 6.2'54

260/375

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TGTGGGAGTGCTGGTGAGGGTCCTTCCCTTGCTGCCTGCTCTGTGCTCCCTCTTTCTGGTGATGCAGCTGTTCTGGTAT
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CAGTCAGACTGGATTAAGGCCCACCCTAAAGGCTTATTTAAATTTTAATCTCCTCTTTAGTGGTCCTATCTCCAAATAT
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TCAATTAAATCAGGGAGAACTTCAGAGCTTTTTTAAGACCTTTATTTATATCTAGATGATTGATATTTTTTAGGTATTC
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GGACCCATCGATTGTGAATGTGTGACTACTTGTGTGTTTTCATCATAACCAGCTCATCCTAATAGCAAATGATATGGTT'
TGGCTGTGTCCCCACCCACATCTCATCTTTAATTATAGTTCCCTTAATCTCCACATGCTGTGGGAGGGACCCTAGTAGC
AGGTAATTGAATCATGGGGGCAGTTTCCCCATGCTGCTCTCGTGATAGTGAGTGAGTACTCTGAAATCTGATGGTTTTA
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CTTTGTCTGGGTCCTGGTACATAATAGATATTCAATAAATTCTTGTAAAATTCATTTTTTTTCAACTGAGAGTACAAAA
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Fig. 6.255

GTAATCAGACAGTAAATATATGTGTACCCTTTTGGAGAAACATTAAATTCATTCCATTAGCAGGCAATGAGTTCTTTAT
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TGCAAATTCAAATACACGTGCTAAGTAAAATGGGAGAGATAGAGCAAGGAGATATAAAAATTCCAAYAGAGCAATTCC
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ACTCTTCCCATCTCAGTTCCTTTGGTGAACTGTTGAGTGTGAACATTTTGCCTTACATTGGGTGATTCAAGGGGGTTCTC
CACGGTAAAAGTGACTATGTCAGATTCTTGCCACATAATCTAAGAGATGACTCCACTGAAGTTTGTGTTACTCTACCAT
CAAAAGATGTATCTATGTTTACAGACATTCTTTTATTCAATTTGAAAAGAAATTTCAATGTCAATAATAAATATTAGCC
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ACCTCATTGCTATAATCAATAGATATAGTACTTTAGCATTCTGTACATTTTAATATGATATATACCAAATATAATGTAT
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<p style="text-align:center">Fig. 6.256</p>

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CCCTGTAGAAGCATGAGATGCAGCAGTGATCTTCAATTTCATGTGCTTGCCAAGTAAGAACAGCCATGGGCCAGATTGT
TGGGAGCCGTGCCATGAGCTACAGACCCTCAGCTCCCCTCTATAATCAGTTCTTCCCCCACTCCAGTGCTCCCAACTTG
CCCTAAGCAGAGCGTAATTGTGGATGTGTAACTACCGCAGAGGGGAGTATGCTTTTTATGTTGTTCAATTCTTCACTTT

Fig. 6.252

CTCTTCTGCAATTGAAAGTTGAGCTGTTAGATTTCCTGAAATGAAATGGTGACAAGAGAAAGTAACAGAAGTAGCCTTT
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TTCAAACTTTCACAGGTCCCTGGGCATGAATATAATGTAGCCAAGTTCTTTGCTAAGGTATAACATGGGTGACCTTTGC
TCCAGTTCTCAATAAGTTCCTCACTTACACCTAATACTTTGTCAGCACGGACTTTACTTTGCAGATCACTATCAGCATT

Fig. 6.258

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TTGGTCATGACCATTTAATCAGTCTCTACCAAGTTTCAAACTTTTCCTCATCTCCCTGCCTTCTCCTGAGCCCTCCCAA
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CAGTCAACAGTAGTTTATCATACATCTCAAAATAACTAAGAGAATATAATTGAATTGTTTGTAACTTAAAGGGTAAATG
TTTGCAGTAATAGATTCCCTGTTTACCCTGATATTATTATGCATTGCTTGCCTGTATGAAAATATCTCGTGGGCCCCAT
AAATCAATCAATCTATCTATCTATCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTACCTACCTACCTATTATGTAC
CAACAGAAATTTAAAATTTAAAAAATTATGTTTTGGAGACGTCTAGAAAAATTGGTGATAATGTCACATAATCAAATAA
AGAAGGTAATATATAACTCCAGAAAAAACAAAAAGTTGTTCCATAAATAAAACATAATTATGGCACATCATTTGGTTTA
TCAGTAAACGTTACTTTGCAGGGATGATACAATAGAACACTGAATGTTTATTTAGCCAATAATTGTTATATAACTGTAA
```

Fig. 6.259

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TGGGAGGATAGAAAGAGGGAAGTAGAGAGGTGAAATGGTGAAAGAGTGTGAAATCTTCATCATTCATAATAGAAAGTCA
GTTAGAAATATGGAATTTAAAAAAAAATAGTTTGAGAGCCTTATGAAGAGGGTGGCACAAAAGACTCCTGCAACTTGTT
CTAAGCCCTGTGCATACAATTTGGGGTGTGTGGGTTAGTTTAATAATTATTTTGTAAATATAAAAGGAACCAAAGCAAC
CAAATTTCTGGATATAAATGTCCTGTGTTGATTATCATGATAATAGGTAGACATCTTGGATTGGAATTTTTTAACATTT
GAATGGAATACCCCATTTCCCCTTTAATCTTTGATAGGTTTAACATGGTCACTAACTGTAGAGTAGGGACTTGTCGTGC
TCTTTATTGGCAGAAGTGTGACTGGCTACCCCTGACCGTTCGGGAGAGGAGACATGTACACCTGGCCAATCAGACCAGC
AGATTCACTGCTGGTGATGAGTGAAGTTGCAGATGTCAGGGACAGCTTGTGCTGTTCAGGTTAAATTATCTCACTTCAG
CTCTCACTCTAAAGATGATTTATAACTAGTATTCTTCACTTTCAGTCTTTTCACTAGCAAGCAGGATACTTATGGAAAA
TAATTAGGATGAAAAGAGGTCACTCTATCACAATAGTGAGTTTTTGAATTCACACTTTAAACGAGATGATCCTCCTTAG
GAAAAGCAAAATAAAACGAATTTCCATGCCATTGTTGATTCTACTTGAGTTAAATACTAACATAAAAAGTTGGTTTTCT
GTGCATAGCCTGGAGAATCTTGTCTCTCAGAATTATCATGCCCCAGGCCATTCCTTGCAGATTTTGAATTCCCTTTGTC
TCAAAAACATCCAGAAAATCTTTTTGACCTTCGGGTGGTTGGCAGAACATGTGTTGTGAGGGCACCTCAGTTTAGAAGA
AAAGCCCTGAACTTAGTTCAAAAGAAGGGCTTTCCAGCATGCTATTCATTCAGCTTAGGACTGCCAGGCTTCCTGAAAG
ACAGGTGTGTCAGAAACAAAGTAAATAAACAGAAACTCACAATGTCCAGACCTTTCTCTCCAGAGCAGCACAGTTCCCT
TGCTGAGCGGCAACAGCCAAGGCTTTAAGCTGTTCCCTCTCCCTTTTCTGTTAATTGAGAAAACCAATTGCTGCAAGAG
CAACATCAGCAGAGCTAAATGTAAATGGAGTTTAATAGAAAGAGACAAATAACCCACTGAGAACCCCTAACATTTCAGT
GTAATACCCCAGAGTTCCACACCATAAACTTGGTATTCCAGTATAAAGCTCATCTCTCAATTGCACGCCACCCTCCCCC
ATCTTATTCACTCTCTTGCATTATTAAAGGAGTGATCTCCCCCATGGGATCAAAATAGATAGATAGATAGATAGATAGA
TAGATAGATAGATAGTAGTCTCTAATATATGTATTAGAAACAGAGTCTGTGTTGCCCAGGCTGGAGTGCAGTGGCATG
ACCATAGGTCACTGTAACCTTGAACGTTTGGGCTCCAGCGATCTACAGGTGTGCAGGTCTACAGGTGTGCACCACCATG
TCCAGCTAATTTTTAAAATTTTTGTAGAGACAGGATATCTCTATGTTGCCCAGGCTGGTCTTGAACTCCTCTTCTCAAA
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AAAGTTTGTGTACACTGAACCATCAGCAAAGGAGTCACTATCTCATGTCAGTGACCAAAAAGTTTTAGACTTTGGAGCA
TTTTGGATTTCAGAGCATCTTGAATTTTAGGTTTTTGGATGGGGATGCTCAACCTGTATATATGCATACATGCATATTT
ATGTAACATACATAATGGTACCTAAAACTTAGCAAATACTCATATGTTAGCTATTATTTTTGTTGGTATTACTATGAAT
AATAACTATTAGCATTTTCTCTCATATCTAAAATGCAGTTGGTAAATGCTAAACTCATAGGAATGTTGTAAAGATTTAT
TTTTTATTTTTTTTATTATTATACTTTAAGTTTTAGGGTACATGTGCACATTGTGCAGGTTAGTTACATACGTATACA
TGTGCCATGCTGGTGTGCTGCACCCACTAACTCGTCATCTAGCATTAAGTATATCTCCCAATGCTATCCCTCCCCCCTC
CCCCCACCCCACAGCAGTCCCCAGAGTGTGATGTTCCCCTTCCTGTGTCCATGTGATCTCATTGTTCAATTCCCACCTA
TGAGTGAGAATATGCGGTGTTTGGTTTTTTGTTCTTGCAATAGTTTACTGAGAATGATGATTTCCAATTTCATCCATGT
CCCTACAAAGGACATGAACTCATCATTTTTTATGGCCGCATAGTATTCCATGGTGCATATGTGCCACATTTTCTTAATC
CAGTCTATCGTTGTTGGACATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATAATGCCGCAATAAACATACATGTGC
ATGTGTCTTTATAGCAGCATGATTTATAGTCCTTTGGGTATATACCCAGTAATGGGATGGCTGGGTCAAATGGTATTTC
TAGTTCTAGATCCCTGAGGAATCGCCACACTGACTTCCACAATGGTTGAACTAGTTTACAGTCCCACCAACAGTGTAAA
AGTGTTCCTATTTCTCCACATCCTCTCCAGCACCTGTTGTTTCCTGACTTTTGAATGATTGCCATTCTACCTGGTGTGA
GATGGTATCTCATTGTGGTTTTGATTTGCGTTTCTCTGATGGCCAGTGATGGTGAGCATTTTTTCATGTGTTTTTTGGC
TGCATAAATGTCTTCTTTTGAGAAGTGTCTGTTCATGTCCTTCGCCCACTTTTTGATGGGGTTATTTGTTTTTTTCTTG
TAAATTTGTTTGAGTTCATTGTAGATTCTGGATATTAGCCATTTGTCAGATGAGTAGGTTGCGAAAATTTTCTCCCATT
TTCTAGGTTGCCTGTTCACTCTGATGGTAGTTTCTTTTGCTGTGCAGAAGCTCTTTAGTTTAATTAGATCCCATTTATC
AATTTTGGCTTTTGTTGCCATTGCTTTTGGTGTTTTAGACGTGAAGTCCTTGCCCATGCCTGTGTCCTGAATGGTAATG
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TCTGTTCTGTTCCATTGATCTATATCTCTGTTTTGGTACCAGTACCATGCTGTTTTGGTTACTGTAGCCTTGTAGTATA
GTTTGAAGTCAGGTAGCGTGATGCCTCCAGCTTTGTTCTTTTGGCTTAGGTTTGACTTGGTGATGCAGGCTCTTTTTTG
GTTCCATATGAACTTTAAAGTAGTTTTTTCCAATTCTGTGAAGAAAGTCATGGGTAGCTTGATGGGGATGGCATTGAAT
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TTTTCCTAATTGAATACCCTTTATTTCCTTCTCCTGCCTAATTGCCCTGGCCAGAACTTCCAACACTATGTTAAATAGG
AGTGGTGAGAGAGCATCCCTGTCTTGTGCCAGTTTTCAAAGGGAATGCTTCCAGTTTTTGCCCATTCAGTATGATAT
TGGCTGTGGGTTTGTCATAGATAGCTCTTATTATTTTGAAATATGTCCCATCAATACCTAATTTATTGAGAGTTTTTAG
CATGTAGGGTTGTTGAATTTTGTCAAAGGCCTTTTCTGCATCTATTGAGATAATCATGTGGTTTTTGTCTTTGGCTCTG
TTTATATGCTGGATTACATTTACTGATTTGTGTATATTGAACCAGCCTTGCATCCCAGGGATGAAGCCCACTTGATCAT
GGTGGATAAGCTTTTTGATGTGCTGCTGGATTTGGTTTGCCAGTATTTTATTGAGGATTTTTGCATCAATGTTCATCAA
GGATATTGGTCTAAAATTCTCTTTTTTGGTTGTGTCTCTGCCCGGCTTTGGTATTAGAATGATGCTGGCCTCATAAAAT
GAGTTAGGGAGGATTCCCTCTTTTTCTATTGATTGGAATAGTTTCAGAAGGAATGGTACCAGTTCCTCCTTGTACCTCT
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Fig. 6.266

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GGTAGAATTTGGCTGTGAATCCATCTGGTCCTGGACTCTTTTTGTTGGTAAGCTATTGATTATTGCCACAATTTCAGAT
CCTGTTATTGGTCTATTCAGAGATTCAACTTCTTCCTGGTTTAGTCTTGGGAGGGTGTATGTGTCAAGGAATTTATCCA
TTTCTTCTAGATTTTCTAGTTTATTTGCATAGAGGTGTTTGTAGTATTCTCTGATGGTAGTTTGTATTTCTGTGGGATC
GTTGGTGATATCCCCTTTATCATTTTTTATTGCATCTATTTGATTCTTCTCTCTTTTTTTCTTTATTAGTCTTGCTAGC
GGTCTATCAATTTTGTTGATCCTTTCAAAAAACCAGCTCCTGGATTCATTAATTTTTTGAAGGGTTTTTTGTGTCTCTA
TTTCCTTCAGTTCTGCTCTGATTTTAGTTATTTCTTACCTTCTGCTAGCTTTTGAATGTGTTTGCTCTTGCTTTTCTAG
TTCTTTTACTTGTGATGTTAGGGTGTCAATTTTGGATCTTTCCTGCTTTCTCTTGTGGGCATTTAGTGCTATAAATTTC
CCTCTACACACTGCTTTGAATGCGTCCCAGAGATTCTGGTATGTTGTGTCTTTGTTCTCGTTGGTTTCAAAGAACATCT
TTATTTCTGCCTTCATTTCATTATGTACCCAGTAGTCATTCAGGAGCAGGTTGTTCGGTTTCCATGTAGTTGAGCGGTT
TTGAGTGAGATTCTTAATCCTGAGTTCTAATTTGATTGCACTGTGGTCTGAGAGATAGTTTGTTATAATTTCTGTTCTT
TTACATTTGCTGAGGAAAGCTTTACTTCCAAGTAAATGGTCAATTTTGGAATAGGTGTGGTGTGGTGCTGAAAAAAATG
TATATTCTGTTGATTTGGAGTGGAGAGTTCTGTAGATGTCTATTAGGTCTGCTTGGTGCAGAGCTGAGTTCAATTCCTG
GGTATCCTTGTTGACTTTCTGTCTCGTTGATCTGTCTAATGTTGACAGTGGGGTGTTAAAGTCTCCCATTATTAATGTG
TGGAAGTCTAAGTCTCTTTGTAGGTCACTCAGGACTTGCTTTATGAATCTGGGTGCTCCTGCAGGTGCATATATATTTA
GGATAGTTAGCTCTTCTTGTTGAATTGATCCCTTTACCATTATGTAATGGCCTTCTTTGTCTCTTTTGATCTTTGTTGG
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CATCCTTTTATTTTGAGCCTATGTGTGTCTCTGCATGTGAGATGGGTTTCCTGAATACAGCACACTGATGGGTGTTGAC
TCTTTATCCAATTTGCCAGTCTGTGTCTTTTAATTGGAGCATTTAGTCCATTTACATTTAAAGTTAATAGTGTTATGTG
TGAATTTGATCCTGTCATTTTGATGTTAGCTGGTTATTTTGCTCGTTAGTTGATGCAGTTTCTTCCTAGTCTCGATGGT
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GCTTAGTTTGGCTGGATATGAAATTCTGGGTTGAGAATTCTTTTCTTTAAGAATGTTGAATATTGGCCCCCACTTCTCTT
CTGGCTTGTAGGGTTTCTGCCGAGAGATCTGCTGTTAGTCTGATGGGCTTCCCTTTGAGGGTAACCCGACCTTTCTCTC
TGGCTGCCCTTAACATTTTTTCCTTCATTTCAACTTTGGTGAATCTGACAATTATGTGTCTTGGAGTTGCTCTTCTCGA
GGAGTATCTTTGTGGCGTTCTGTGTATTTCCTGAATCTGAACGTTGGCCTGCCTTGCTAGATTGGGGAAATTCTCCTGG
ATAATATCCTGCAGAGTGTTTTCCAACTTGGTTCCATTCTCCCCATCACTTTCAGGTACACCAGTCAGACGTAGACTTG
GTCTATTCACATAGTCCCATATTTCTTGGAGGCTTTGCTCGTTTCTTTTTATTCTTTTTTCTCTAAACTTTCCTTCTCA
CTTCATTTCATTCATTTCATCTTCCATTGCTGATACCCTTTCTTCCAGTTGATCGCATCAGCTCCTGAGGCTTCTGCAT
TCTTCAGGTAGTTCTTGAGCCTTGGTTTTCAGCTCCATCAGCTCCTTTAAGCACTTCTCTGTATTGGTTATTCTAGTTA
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TTTTATCTACTTTTGGTCTTTGATGATGGTGATGTACAGATGGGTTTTTGGTGTGGATGTCCTTTCTGTTTGTTAGTTT
TCCTTCTAACAGACAGGACCCTCAGCTGCAGGTCTGTTGGAGTACCCTGCAGTGTGAGGTGTCAGCCTGCCCCTGCTGG
AGCCTCCCAGTTAGGCTGCTCGGGGGTCAGGGGTCAGAGACCCACTTGAGGAGGCAGTCTGCCAGTTCTCAGATCTCCA
GCTGCGTGCTGGGAGAACCACTGCTCTCTTGAAAGCTGTCAGACAGGGACATTTAAGTCTGCAGAGGTTACTGCTGTCT
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TCCACCCAGTTGGAGCTTCCCGGCTGCTTTGTTTACCTAAGCAAGCCTGGACAATGGTGGGCGCCCCTCCCCCAGCCTC
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TGCCTCGCCCTGCTTCGGCTTGTGCACGGTGCGCGCACCCACTGACCTGCGCCTACTGTCTGGCACTCCCTAGTGAGAT
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TGTATATGGTGAAGAATAGAAAAGTGCCATCTTTCATTATTTTCACCAATAGTAATAAAGCACAATTGTATAGTAAACT
TGTAATATAGTATATGCTCAATAAAATTGTTAATTAACTTTGTGTTCATTTCCTAGTGCATATATATCACTAAGGGAAT
TGATACTAATGTCATTGCATGCATTAATGGTAACATTAATTATCTTCTTACACATTGGGCAAAAAAAGAAAATACCAGG
CTGTCAGAACATCTTGGCCCAGAAACCTCCCTTCAGCAAAAAGACAAAAATGTGAGTGAAGAGAATATGCCTTTGAGAA
TTGAGAGGGTTGCATTTTGCCTATTATGTATAGAGATTTGCCAATTTCCCTTTCACAAACTATGACAGTGACACTGATT
CTGGATGAGCAACCTGCATAATGCTTCAGGGGCACATCTCTTCTTCTAAGGCTGCAGGCTTGCCGATGAGACAGAACAC
AGCCTCAATTCCATCTGCTGTCATTTATCTGCCAATATAGATAGCAGATCTCTGTGGGTCTTGGACTGCTCAAACGACA
CAGTATATTTTAGCAACTGAAGGGGAACCACTTGAGATCACTAAAGGTGGAAAACACCTGATGACACCTTCAATCGAAA
GAAATGAGTATCCAAAATCTGAAACATTAGGCCCCACAGTACAATGGCTCTAGTGACAGATAAAAAATACTATTTCTAA
CCCTTATAGAATGAACTTGTTTTCAAGAGCTCAAAGAAAACTTTTATCACATTTATCTTCCACTTTTAATTAAAAAGAT
TATTTCTGAAATGCTAAAACTTTTGTTTTATTCATGTTTTAGAGGAAAGGAGAGGAAGAGAAACCACTGTTACTTTCT
TGATGCTGTACCTGGCACCTGCCCTTGATTGAAGATGAGTTTTGCATGGTGTCTGAACCAAAAATAACAAGTCCTTTAA
AAATTATTGTCCTAAAAACCAGCAGATCAAACTACTTTCTTTTTTCTCAGAGGATTCACAAAGTATATTGTTTGGAAAG
GCAAAGTCAGTGAAGAAAAAGAGGAACGTCCCTAAATATTGGTGTTGTCATTTATAATGTAAGACTTCACTAGAATGA
GATTATCTCAGGTGTGAATGGAGAAAGGTAGGATGCATGCAGTGTGGAAGCAGCCAGATTCAACACACTAAAATCATTA
ACACATATGTTTGTGTAGTTGTGTGTAATTTTGAGGGGGAGAAGAGGAATTTTGCCTTTAATTCTCACTCCAACCACTT
```

Fig. 6.26J

GACCAATAATTGGGAATCATCTCTTTTATCCCCTATTTTTGCCCCTTGTTCTATATGTTATTTTTTTGAGATGTTCTTT
ATCATAAAGTGCCTTTACGTAGGCAGTATATAAGCAGTATGCAAAATTGAGTCCCCATCTCTGGCATTGATCTCAAAGT
CCTTTTTTTGTTGTCAAATACCTTTGAATCTGTGTCTTCAAACTCTGCTTGGGTTCACTCAAATCAGTATATTTCTTTC
CATATGTAGGTCTTTTGATTTTTGTCCTAGGTTGACTCTTTCCTGAGTTCCCTTTTACATCAGAAATTAACATTTTCCT
AATTATCCAGTCTAGAAATTTTAGTCATCATTACTTTTTCTTTTCATTCATTTTTAATATCCAATCCATCCTCAGGTTC
AATTAATCCTTTCTTCAAACTCTACTTCCCCTGTCTTTCATTCTTCAGCTGAGTTCACATCACATAGGTCCTCATCCAT
TCATGCCAGGACTTCGACAGCAGATACTAACAGGCATCAACCTCCAGACTCGTTAAATTAATCCTACACACTATTTCCA
GGTGACTTACTGAAAGTCTTCATTTGATCCTGTCACTCTCCCTTTCAGGACTCTTCCAGCAGGTCACAACTCACATATC
TGCAGGAGCCAGGAGCTATTCAAATGGAGAAGGCAGGGGGATCCTGGGCAAGGAGGGTATAGATATATCCTCACCTGCA
TGCGCAGTGACTTCTGAGCTCCTCACAGTTGTTATCATGTGAAAATATAGGCCAGGGTTGGCAGGCTTTCTGATTTTTC
AAGAGAACACAGAAATTAGACTTTTAAAAAGTTGATTCAATAAATATGACAAGGTATATTAGGGTTCTCTGGAAGAACA
GAATTAATGGAATATATATATATATATATAGACACACACACATATATATAAAGGGTAGTTTATTAAGTATTAACTCA
CGTAATCACAACGTTCCACAATAGGCCATCTGTAGGCTGAGAAGCAAGGAGAGCCAGTCCAAGTTCCAAAACTGAAGAA
CTTGGAGTCCAATATTTCAGAGAAGGAAGCATCCAGCATGGGAGAAAGATGTAGGCTGGGAGGCTAGGCCAGTCTTTCT
TTTCACATGTTTCTGCCTGCTTATATTCTAGCAGCGCTGGCAGCTAATTAGATTGTGCCCACCCAGATTAAGAGTGGGT
CTGCACACTGACTCAAATGTTAATCTTCTTTGGCAACACCCTCACAGACACACCCAGGATCAATACTTTGTATCCTTCC
ATCCACTCAAGTTCACACTCAGGATTATCACAGAAGGCATACTATGTTCTGAGCTTTCTTCTCTGTACTGTAAAAAAAA
ATACAGCAGTGAATGAAACAGACAAAAATTCTACCCTTGTGGAGTTTATATTCCAGCTGGGAGTGAAAGATGAAAATAA
TTTATATATTATATATATATGTAATATATAGAAATATATATTTATTTATATATCTATATTTAAAAATATGTATGGGGAA
GATTTTGTGATAAATACCATGAAGAAAAGTGTATTAGAGAAGAGGTTAACGAATGTGTGTGTGGTGGGTGGTGGAATTT
TAAGTGGTGTTAGGAAAGACCTCATTCAGAAGGTAGCATGTGAGCAAACATGAAGGAGGTACAAAAAGTCCTCCTGCCA
TCATGGAGGGACAGTAAGAAGGTCCTGGTGGCTGGAGTGAAGTAGCAAAGTGGAGAATAAGGGAAAAAGTTGGAGATGA
AACAGAAGGGGACTCAGAGCTCTATTCATCTTACTAGTGGCTTTGCCTTATTAAACAAAGACCTTTAAACAGATGTTAA
CAAGATCCCTCTGACTCCTAATTTGGAGATGACTTTAGGGGAATAAGGGAAGAAAGAGAGATCAGTGAGAAGCAGAATT
CTTTTTTTCAGGGTCTTTCTCATTGTTGTTCTCACTACCATCACTTTGGACAGACAGGTACTCTTTTTAAGTCAATT
TGATCTAAATGTGGGTTTTAAAAAAATCCTTTTCTTTGTTTAACAGCTGAGACAAAGCAGGAATTTTAAAGCACACTT
TACTGACAAACTATGTAGAATCAAAGTAACATGAAACTAGATAATTTGTTCTATCATAGGAGATATCTTATTCAAATGA
AGTCCCCTAGGAGAAACTCTTCTTCTGACTCCCTCTTCACACTGGACAGCAGAGGCCATCTTTAACTTTCCCACACAAG
AGGGCTCCACAAGACATAGTCATTACTCAAGAGATTGAGAATCAAGACAGAGAAGTTTAGTCTCCTCCTATGCTTACTT
AAGGCTCACCTCCTTAACTCTGATTTCCTCTCTGGGAAATCTCTATTCCTCTGGTGACTGTATACTGGGATTTAGTACA
ACATTTAGGGAAGTGCAACCTACTCAAAATATCCAAATATAGCACCATAATTCTAACACTCTAATAAGAGGCACATCCA
CGTATTTTCAAGGGTGGGGAAGATCATTAAATAACAGTATGAGTTATATTATGTTCTCAGTAAATATTAGTTACCTTT
TCTTCCTCTTGGAGTGACTTTTACCACCCTCTGTAACTCATCTAGCCTTATCTAATGGGAGGCCATTTTATTTTGGGAT
GGCATGACTACATAATTTCAAGCTATTTCTTATGTTATTTGCCGCCTCTTAAATATCTTCCCCTTACCTCCTTCTCATA
CAAACCTTAAAGTTCTTCATAAGTCACAACAACTTATAAGGTCTTTTACCTAACTGAACCGATGTCTTCTCTTTGCTGT
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AACCCTGATTTGCTCTTTATACTTTAACACCTTTTGTTTCTTTGTTTATAAATCCACTGTGCAAAGCTGTTTATGCAGC
AGAAATTTAGTAAACATTCTGTGAATGTCTGAAACATCCATTCATCAATCCACTCACACAAAAACATTAACATATACTT
TGTCATGCATTGTTAGATGTTCAAGCATGAAAATCAAACAGTAGTGAAGAATAATTTATTGTAAATATTATTTTTCAGG
GAAGAGAACACTTTAGAAATAACTTCTTGAGAAATTGGTTTGGGAAAATAGTATATCCAAAATTAGAGAGCGCCATCTT
GTGGGCAAGTGAGTATCTCACACAAATAATAACTATTATAAGTTGCAAAAATAGAATTTCTTCTCTTTTTTTCTTACAA
TTCAAATCTCCTTTTTACTGTAAATATTTGTATTGATGCATAATAATTATACATATTTAGGAGGTACATGTGATATTTT
GATTCATGCATACAATGTGTGATGATCAAATCAGGGTATTTAAGATAACCATCACCTCAAACGATTATTATTTTTTGTG
TTGGGAACACTTCAGCTCTTCCAGATATTTTGAAATATACAATAAATTATTGTTAGCTATAGTCACCTTTCTGTGTTAT
CGAACACTAGAACTTATTTCTTCTATCTAACTATATGCTTGTACCCATTAACTAACCTCTTTTCATCCCACCTCTCTCT
TCCCAGCCTCTGGTAACCATCATTCTACTCTCTACCTCCAAGAGATCCACTGTTTTAGCTCCCACATATGAGTGACAAC
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TCCTTTGAATAAATTCCTAGTGGTGGGATTGCTGGATCATATGATAGTTTATTTTTAGTTTTTTGAGAAACTTCCATA
CTGTTTTCTATTATGGCTGTACTAATATACATTCCCATCGTCAGTGTATAGGAGTTCTCTTTTCCCAGCACCCTTCCCA
GCATCAAATAAAATCTTTTAAAGAGGCTCTGTCTGTCCTAGCTGAAGAACTGAAAATATATATTAAAATTTTATATAAT
TAATGATATTTTAAACAATCCTTAGAAACTAATTGTAATATTTACAATTTACTTTTAAATTTCTTGAATAGCTAAAAAT
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AAAGGAGACAGAATTCTTAGAGATTATCTCTTTAAGGGGTCTATCACTTTTTGGGTATCTCAGGGTGCTTTGAAAATTT
GACTAGATCAAATCTCTCTTGAAAAATGTAAATGTACACACAATTTTTCATATAGTTTCAGGGGCTTCACCAACTCCCC
TGCGGTTGACTCATGAACCCATTCATGAACTTCATATTTTAAATACTTACATTTTACATAATATACAATTAAAGTCTAG
AAGGTTTGGGGGTAAAAGCTAAAATTTGATTCCATTATCTCTTCATCCCCAAAACCTCATGCTCACACAATTTTATAAG
ATTGATATAGATAGATCAAATCATGATGAAATATATTTGCTACATCGTTTGAGTTCCTAAGCTAAATCTTAAAACTTAT
AGTTTCTAGGCTATTAATGTTCCTTACATCAACAAAAATAAATATTTAATATTAGGTTCATGTCATTCATGGTATATCT
GTCACAAATACCCTTGATGTCCATTCTATCCAAAATAAAAGATGTTATTATGGATTTCCTTCTTTTTCAGGGCTGGGTA

Fig. 6.262

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GAATTCTAGTGTGTGAGTGTGTGTGTGTGTGTGTGTACCACATTTTCTTTATCCATTCATTGTTGATGAACACTTAG
GTTGATTCTGTATCTTTGCTATTGTAAATAATGCTATAATGAACATGGGAGTGCAAATATCTTTTTGACACACTGATTT
CACTTCCTTTGGATATATACCTAGTAGTGAAACTGCTGGATAATATGGTAGTACTATTTTTAGCTTTTAAAGAACCTCG
ATGCTGTTTTCCATAATGGCTATGTGAATATACATTCCCACCAACAGTGTAAACATCTTCCCTTTTCTCCACATCCTTG
CCATCTTTCATCTTTTTTGTACTAACAGGTATGAGTTGATATCTCATTGTGGTTTTAGTTTGCATTTCCTTGATTATTA
AGTGATGTTGAACATTTTTTTCATATACCTGTTGGCCATTGGTATGGCTTCTTTTGAGAAACATCTGTTTAGATCCTTT
TCTTGTTTTTTAATCAAGTTATTTGTTTTCATACTATTGACCTTTTTGAGTTCCTTATATATTTTGGAAATCCTGTCAT
TTGGGATCACATGGATGAATCTGGATGACGTTATGTTAAGTGAAATAAGTCAGGCACAGAATGACAACCACCACATGAT
CTCATTTAAATGTGAAAGCTAAAAATGTCAAACTCATAGAAACAGAATAAAATGGTTGTTAACCAGGGCTGATGGGTGG
GGGCTGAAGACTGGGGCAATGTTAGTCAAAGGACACAAAATTTCAGTTAAACAGGAGGAGGAATAAGTTCCAGAGATCTATT
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TGTAAATAAAATGTTTTACATCATAAATATATACATTCTTATTTGTCAATTTTTAAATATATATATACCTTTTAGAATT
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TTGCTAGTATGAACCTTAGTAACCTAGGTTAGTATTTCCCAAAGTAGGTTTTGTGGAATGCTAATATCAACAGGTACTA
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GTAATGGGGTTGGGTGCTCCACAGAGAACATTATGGCACATGCTGAACTAGAGATAAAAAAGATAGATTTAAAAATATA
TGCAGATTGCTTGGACAAATTTCAGCAGGATAGTGAGAAATTGATTTCTAGTGTAGAATATTCTGGGAAATGAGATTTT
TTTACATTACGTGATCCTAATTCAAATATTATGATTAATTTTAAGTAAGCAGGCAATTTGATGTAATGGAGAAAGCACT
CACCTGAAACAGAGTTAACATGTTTTATTCCTTGGTACAGTCATGCTGGTTTTTAAGTGTTTAGCAATTCATTTTACCT
CTCCAGCTAAGGTAAAGGAATTCTTGTAGGAGTAATAGAAGCCCTGTGATTAGTATAAAACTTAGATTAAGATGCTTTG
TGCAGCAATTCCCATGGCATATTTCTTTTTGTCTTTTCTCTTTCTCTTTCTTTCCCTCCCTCCCTCCCTCCCTTC
CTCCTGCGCTGCCCTGCCCTTCTTTTCTTTTTCTTTCTTTCTTTCTTGACAAGGTCCTGCTTTGTGCCCCAGGCTGGAG
TACCTGGGCTCAAGCTATCCTCCCACCTCAGCCTCCCAGAAATCCTGGGATTGCAGACATGAGCCACCATGCCCAGGCC
CAAGTCATATTCTAAAACATGGCTTACTCTGATATTAACTGCCGTCTACAGGGGAATGGTCTAATTACTCTGCAAATGC
TCTCCACCTTCTAGAATAGTCACATTCCAATTAGTATATTTAAAGCTCTTAGAAGTCACGTAATAAAAAGAAATATTTT
CTTTAAGATTTTGAAGCCATATTTACAAATTATTTGACTCTCTAGTCTTTTTCTTGTTTTTATTATTCAACTGGACTCT
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GTTTTTAATTCATGCCAACAGAGATGAACCAACAATCTAAAAGAATGGACTCCTAATCAATTGTAGTGAATGGACCATA
TGTTCATATTATCTGTAATTAAATGGAGGAATTTAAAAGGAAAGGTGTGAGAATGGAAGAGAAGGCTGCCTCCCCACAT
CCTATCCAAGGCTCCTGTTTCTACCCGCACACCCTACCACAGAAATACCCAAGATTTATTTTCTAGAGAAATGTTCTCA
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Fig. 6.263

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CAGAGGGAGACCCTATCTCAAAACAAATACAAAAACAAAAACAAAAATGGTTTACTTCTAGCTAAAAATTTAATTAAAA
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CGTAAATATATGTATATACATATAAAAATAAAGAAAATGAGCCAGATTTACAAGTTGCCTCTCGGTATAGATGATTTTT
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Fig. 6.26ζ

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GTCACTTTTTTAGCCCTGGGATGGGATGATTTGTCTCAGGTTTGGGTGTTGTGGCTTAGTTGCCGTGCACTAGGCAGTG
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<p style="text-align:center">Fig. 6.265</p>

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ACATAGAGTGAGAGAAAAGAGATGAGTCAAAGATAATTCAAGGGTTTTTGGCCTGAACAAATTGGAAATGTGTGTTTT
TATTTATTGAGCTTGAGGAGTTCAAGGGAGGAGTAGGTTTAGTGGTGGGGTGGTTCTGTTTGAGCATTTTGAGTTTGAT
AGTCCTGTTTGTGGAAAATGCTTGGAGTGCTGCCCCATTTCCCTCCACCCACTATAGAGTTCACCTGAGGCTATGGCAG
ACTCAGTCAGTTTCCCATCTCAGGCACCTGGGGGCTTTCTGCAGTACAAAGGAGCCTGCTGAGACCGTTTACAGAATTT

Fig. 6.26C

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TTTAACATTCCCAGTGGCAACACTCCAACATTGAGGGTCCAGAGTTGGTGCTCATATACCCCAGGTTCCACATTCTCCA
GTGGGACAGTCCTGAGGCATGTGTATATATGGTCCCACAAAAGGTCCCTGGGGAGATTGGGCCCCATCTGCCCCTGCTT
ATTAATACACACTGTATTAACTTTTCTTCCTTTGCTATCCCACTTCTCCATCACCTAACTTTGATTTCCTAGAATCGCC
TTCCTGCCTCTTCTCCAAATAAACTACGCACTCCAATATTTTGCAGTCTCCCTGGAAGGAATTAAACCTAAGACTATTA
AATACCCATATGTCAATCTCCAAGAAGGAGATTGATATACTATTCTGAAAACCAGGCAAAATGTCAGGGATGGAGATAC
AGTTGGGAGGCGTTAGTCTTTTTCACAAGCCTATTCAAAAGCCCATTGCACAAGCACTAGATATGTGTAGATTCCTACA
CAGACTTGTTACCGTCCTTGTCTGCCTCATGTCATCTCTTCCACATGAATACAATGATACTCATCAATGAATGCTCTGA
ACTTTCAGCAAAGGCCACAGTAGAATTTCTAGATAGTAGTAGATTGAGAAGTGATGACAATTTGATTGGAAGCTAAGGG
ATCTTGGGGACTTGTCTTGAATTTGCATTTACATAGAAAGCACATCGTTTTTATGTTTGAYACATATTTATTTGTGGTG
GGTTTGGAAAACCTTGTAGCGGTTATGGAGGGGCACCCCAACCCATCCTTTGGTGTTGCCATTGCTTTTTAATTATGAT
TTGTGCTAAGCCACACATTCTCATTTTACCTAGCTCAGGGTTCTAAGCATGTTTTTCATGATGGTTTGGTTAGGAAAGT
GAGTAGCAATGAATGAGCTCCTCAATAAATACATAGCACAGACACTGACAGGCAAAGTGAAGTTTGTAATCACTTCCCA
ATCAATTGTTCAACTGAATGTGAGAAGAAATCATTTTCTCTCCTGTTTTGAGTCAGAATATCACATAAAGCACAACTCT
TCCTGCATACATTGTATCATATTCCACAGTAATTTACTTTTTTGCAAGAAGTATCCAAAATTTGGTTTTTCCTGCTGAG
CAGTTATCCAGATAATTGCAAATCAGTGGAATCATTTACATGAATAAAGATTTTTATTCTAATTAACGTGCTAAATCAA
GCACACCAAATGTCTCTAATTCTTATATTACTCAAATGGCAATATTTTTGTCAGTGACTATCATATGAAATTTCAGGTG
CCTAATGCATTTTCAAATGGCACTCATAAGCATACTAACGTTTTATAAATAAATGTCTCCATATTTTTAAGATGAATGG
ACAATTTTTGATTTTTAATRTAGTCCCCAATTTTCAATTTTTCAATTTTCATTTACCGAATGGAGAAACAGCATTCATC
AGAGCAAAAGAGCAAGTTTCACAAGTCATGGGAACAAACATAGATGCTAATTTCCTATTTTAGGAAGTTCTTTTTAAAG
TATTATCATTAAGAAGCACAACTCTGTGGAATATTTATGTGCACATTTAATAATAGAGAATTCGGATGTCAAGTCTGTG
TGTTACTCATACCCATACATGCATCCTCAAAAAGCCTTGGAAGTTAATCCTCAGCTGATGAAAGCTAAGCAATTGCTCT
GGAAGGATACTTGAAGTTTTTGGCTCTTGGGGTGAAGGTACAGTCACGAAAACCTCTCTTCACAAGAGGGCGCTGTGCA
AACAGCTAGCTCCTCGTGAAGGAAAATTGCCTTGCAGACTGGCACGAAGTGGATTTCTTTACATCTATTAAGTGCTCTG
CTCTTCATAAAGGAAAATTTCCTTGCAAACTGGCACGAAGTGGATTTCTTTACATCTACTAAGAGCTCTGCTTCTTTCT
CTCTCTCTTGCTTTTTCCTTGCCATGCCTCTTCTTAGGCTCTGTAAGGCAGACTTCTTGTCTTCTCTAGTTATGCTTCT
GCAAACTGCATCATGCTGATTCTATTAATGATTTGATTTTAAATAATACCATCATAGGTGTTAAATGATGTGTATGCCT
ATCTGGCTTCTCAGGACTTCTCTCTCACTACTTTACATCTCACCAATGTGTAAAATATCTATGAGACATCTTTAATTTA
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GAAAATATAAACATTATGGAAAATAAAATTTAAAAAACATCTATCATTCTATTACCCAGAAATAACTTGATCAACATTTT
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TGCTCCTTCCTGATAGGATGCCTTTGTAAGCGTACAACTCCAAACATGGGCTGAGTGTTCAGTAATCATTTGTGTTGAG
TTCTTCAGTTTCATGGAGACTAAAATTAGGTTTTTCTCTGTCACTCTTGTAATGTCATCTGACCTTGACCTGCATTTCAA
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CTCATAACTTACCAACAATTTTCTTATTTCAGAGAATCCCAAAAACATATTACCTAGGACTAACCTGGAATAAAACTTC
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TAGGCACAATCCTAAATAGTATTCAGATGAGTCTTACCTGAATAATTGCTCACCTAATATGATAATCACCTGTTAAGAA
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GCCCTACTAAGGCATGCTTATTTTTTTCTTTATGTGTATAAGAAGGATTCAAAGGGACCGTTTGTCAGTTTTAATGTGT
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TGTTGATGATCTGAAAAATCATCTTCTTGTTTTTGTTTGTTTGTTTGTTTTTAGAGATAGGGTCTTACTCTGTCAGCCA
GGCTGGAGTGCTGGAGTTCAGTGGCACACTCACAACTCACTGCAGCCTCGATTCCCAGGTTCAGGTGATTCTCCCACCT
CGGCCTCCCAAGTAGCTAGGACCCCAGGCATGCACCACCATGCCTGGCTAACTTTTCTCTTTTTTGTAGAGATGGGATC
TAGCCATGTTTCCCAGGCTGGTCTCCAACTCCTGGGCTCAAGAGATCTGTCCGCCTTGGCCTCCCAAAGTGCTGGGATT
ACAGGCATGAGCTTCATACCTGGCTACCTTCTTCTTAATTATATACATTTTTTCTTAAATAAGAGCTCATGTTATTTTT
TATTTCTATAAATATTTTATATTCCTTCTCTTCTTATTGCCCTGATACTTTAAATAAACCTAAGCCCAGTCAAATTTTG
TATTACCCTTGAGTTTCAGTTTTTGGTTCATTCAGCCCTAAGTTCTCTTTGGGCATGAATTGTTTTCACCATTGACTAC
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Fig. 6.267

TAGCAGGCAGCTGGCATAGCCTGGGACATGTGAGGTGATGCTAAACATGCATTTGTGAGTAGAAGGAAGGAAGAAAGGA
GGGAAGGAAGGAAGGAAGGTAGGTAGGAAGGAAGGAAGGAAGGTAGGTGGGTGGGCAAGAGAGAGGGAGGAAGAAAAAA
AGGAAGGGAGGCTGGTTGGTTTGATTAGCTGTTGAACAAAATTCCATATAGAAAGTAGCTTACTAGTCTATATCTTTTA
GCTCTGTTTATTTCAAAGCTTTGTGTGTTTTTGTTAGGGTCACTTATAGAATATTTAGAAAAATACTTGCTGCCTCATG
CATTTCACCATCCAGTGCCTGGTGAGACCTAAAAGCCCATAGTTATAATTTTGTTTCTTTGACCAAAGTTTGTTTTATT
TTCAAATATAAATTCAATCCCTTAAGACTCACCTATAGCATATATATCAAACAAAAACACGTCAAATTTAACTCAGAAT
TTTGCTGGATAAATGATTTTACTGGATATCATCTGACCAATGAAATAACAATTGTGTGTTCTCAAATTTACTTCTACAT
TTTTAAGGTAGTAAGTTTAATTAAAAATCTCTAATATAAAAATGGCTTATTCTCTAAAATTTAGAGGTAAGCTAAAGTT
TTCATCAAGGCCCCATTATTTAGCACTTTCCAAACTTGGGAAGGTCACTTAACTCCACTGAACCAGTAGAAATAAAATT
AGTGGTAACACTGAAAGCAAAAACCAGAACCAGTCCAATTGTCTTATTAATAATAGCCTAATTGTGTAAATGTCTGTTA
TAAATTTCTTAGCTGGTTCTGAGAGATAGCTAGTAAATGGCACCCTAAGTTTTATATATTCTGTTACAAAACAAAAACA
AATAACAACAATAAGCTGTTTTCTTTTGCTGTTACTCAAACATCTGGATTTCTATTGTAGCCCCTAGCACATTGTTACC
TTTGGTTGGATGGACTGAAAAGTGTTGTGATTTTTCTCCTATGTAGAATATTCAGAGGGAAAGTGCAGGGCAGTGCACA
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TTGAACCCACTCAGCCCCTACTTGCAGCCTCAGTCCCACCCCAGGCTCACAGGCCAATTTTGTCCTGGAATTAGGAATT
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ATATATTACCTCTGTGGTGTTAGCCAAGTTCCTTAACCTCTATGAGTCTCAGATTTCTCATCTATAAAGTGGTGATAAT
AATGTCTGCTCGTGAGTTGGAAGATTAAGTAACATGTAGATCTTATACCTGACACCAATTGTTTTTCCTGTGAAAGTTC
AAAACTTCTCTTATGATTTAATTCTTCAAGGAAGGTGACCTGACCTTTTTCATTCCTGTATTTACTTATATTCCAGGCA
TGTATTGGTTAAGATATACATTTTGCAATTAAGAGGGACCTCAATTTTAACCTCAGATCTGCTACTCATTGGCTGTATG
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ACAGATAAATTATTATGAGGATAATATATAGTATACCCTAAAATTCTGTGCAGAGTCTTCAGAACACTTTCATGTTAGT
TACCCTATTCAGTCCTCTCAAAAGCTCTTTGCAATGGCTCTCTCTCAAATGAGAACCAAATGGATAAGACATTATAACT
CAGCAAGGTCAATAAACACCACAGAATAAACACCAAATAAGTGGTTGATATCATCATAGTAAAATGAGGAATTAGAAAA
GTTAACCCGACATTATGGTGATGTTTGGTTCACAAACTCATTCAGTGCACAGGAAGTGTCCAAGTAAGGAAGGGGTCTG
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AGTGAATTTCAAGATGTAATCCTATATCCACCACTCCTTCACTCACCAGTCAATAGCTAAGTAGGATTTTTATTTAAGA
CTGTATTCATGAGTAGAATATTAAATAGAAAGAATTTTTATGACTTTTAAAATCTTCATATACAGAGAATTGAACAAGA
CAATCAGTGACACCAGAAGACTTTTACACACTTGTTAGAAAATTGTGTCAAATTATTTATTTCAAATGATTAGTCTACA
TTGATTTCAAGATTTTTAAAGAATTTGAGTCTAGAAATATTTTTTGAATAGTTAGAAAAATCTCTTAGGAACTTGTCAG
TCATTTAGTAGATATTCAATAAACATAAAATTTATTTTCTTTTCCTTCCATTTCTTCCTCCATGATTTCTTTCCTTCAA
TCCCATTTATCCAAGTAGGCTTTATCCAACAAAGCTTTAGAAGGAGCTTTGTTAGTTTAGTGAATAGAAAGCTTGACT
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TTTTAGCTCTTTAATTACAGTTTGTGTCTGTTTGTGTCCTGGGTCATATATGAGTAATGGATGCAATTGTAGAAGCTTA
AAACACAGAGCATGCTTTCCCAGTGTTCTTAAGACCATGGGGTACCTTCAATTCTGTTAATGTTTTACTGTTGCCAAGT
CTTAAAATAATTGTCTCCCATTTCAGAACATGGAATAATTGACCTTTCRATCAAGTAGACTCATATAAGGTTTAGAATG
AATATTTGAAAGCAATTCAAAGAAAATTTTGGTATTATTTTGCAACACTTCCATTTTGAGAAATAACTTATAGTTGATT
TTGATAAGTAATGTAATAAAAATCATTTTTTACATTTACTTGTACTGAATGGATATTAGTTTTAAGGAGTACACAAGCC
CCGTTATCAAACTGCCTTTTGTCACACTCTTTTGCAATGYATCATTCTGAAGATAGAATTACAACGACACCCTCATCAG
AAGTAGATGGTAAATAACAGTCTGTTATTTGCTTCCRCATTAACTTCTGCTGGCTTTGAGTCTGTAACCAGAGACTATT
TCAAAATACAGCACTATCCTGAAACCCACTATCTGCCTGCTCTGGTTTCCTGAAGCAATGTCTTTCAACCTAACGCAAC
CCCACTGATGTAACTGCTTATTTCTCTGAAGTTCAGCTCAACCCTCGTCTCTTCCGTATGCCTGTTAACTAGAGACTTG

Fig. 6.262

ATGCGCAAGTAATTGAATGCCTATGTGGATTACGTTTAACTTATCCCACTCTCAAATTTGGGAGTTTCATTTTTATTCA
TAGTAGCTATCTCCTATAAAGGAAATTCTGAGTTTCTGTGTCAGACACCGAAACCCAAATTTGCCATTTGTAACATCTG
GAATCTTGGAACCAAAATCCCAGAAATATTCAAGAGGCAAAAAMGATGCCTTATTTAGAGCTCTGCAGAACATAAGAGC
TAAGTTATTGGCAGGAGACGGGCACTTTGCTGATACTTTAGTGGGGTTAGGACTTACATGGATAACAATTGGATTGGAG
CAATGTTTAGATTTCCGAATCTGGTTTTCCCTAGGACATATAAAATTAGTGTGCACAACTTGTAAACATAATAATTTGT
CTCAGGGATGGAACATCTCTCCTTGCTATTGAATCATGCTTTTACTAAAATTCATCTGGAAAAATAAACGCTTAATAAA
TGACAGTAATTAGAATGTTCAAAAGATGTCTTCTTGTTCTTTTATACTCTTTGATACCCATGAAGTAAAAATTATAAA
CAGCTTGTTGTATTATAAATGCTAGTAAAGATTCATCCTAGAAAATCATTTTATTTAATTTCTTATTTTTTCCAAATGT
CTAAATTCTCATGTCTGTGAAATATTAGCCAGTTCTTCAAAAACAATATTGATATTTCTATTTGAAATCAAGGCTTAAT
TTTGCTCATGATTAATCTCAGAAATAAGTAGCTTATTTCTATGACCTTACTGAGACCTGGTAACCTAAGAAGGATTATG
TGTAACTGTGTGGAAGAAATGAAAAGGAGGCGGTAAGTAATTATTTAAGAAAAAATAATATTAATATTGACAGACACTT
CTTGTGTCTGTAACTGATTTCACACTAGGAAAATGAAGCAGAGTTTCAATTTTCTTGTTCATAATTTCACATTTACAGT
TCCATTGTTTTATCTTGCTTAACTGTTCTAGATGACTGCCTTTACAAAGCAGGGGGAAAAGAAGGAAGAAATGTTTTTG
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TCTAGATTATTCGTATGTCCTTGTAGCTTATCAATTAGATATCCATTAAATTTGAATATCCCTTTAAAAAGGTAAATTT
GTAAGCAAAGGCAGTTAATTATTTGTGAAAATGTATACTGCTGGCTTTAGCCTGAATACAAAGATAGGGTTTATCTTGC
TATCAGTAAAATTGGGATAACAATGAAAATATTTTTCTGCTTCCAAAGTCGTATACATAAACTGTAGCTTTTATTAGAA
ATCAGTGATGCTGTTTCACCTACAAAAATTTAAACACCACTGGACAAAATGAGAGCTTTGTGTTGCCTGGAGGGTGAAA
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AGCCACCTCACCCCACCAGCTGTTAGGGACTCCTCCCCTCTTTACGCAGATCACCAGTTATCTTACACTGTCTGGCTTT
AGTCTCAGATGAAGACATTCTAATAAGCACCAAGTTGTTCAGCTCAGTGCTAACTCTGCCAGGAATGTGTGCATTTCCT
AAGAGCTGCCGAAAATGGAAATTAAATAGTTTGAAAGAATTAAATGATAATGGTGGCATTTCATACACCAGAAGGGCAG
ATTGGCATCAGTGTAAGCACCTTTTCAGTCCTTCTTTGAGAACACCAGGAAAGTGGCTACCTGTTTTGCTCATGCGAAA
TTTGGATCTCTATACAAAAGCAAAAAGACAGTTTGTGAAGCGTTACAATATTGCAAGTTGATTCAGRGAGAATGTGTTG
TGTTTATTTTTGAACTCTCTGCTCCTCCAAGGTTGCTGCTGTTCAGGGCAGTTCTCACTCACCCACTTTCTTTGAGCTC
ATGTCTGATAAGAAAGAGGTGAAACTGTAAAAACCTTTTCTATTACTCGTCTCCAAAGCTGATATGAAACCTGTAGCAT
TCTTAAGAACCCCTGGTGTCCTGGATGCTGTTGTGAAAACAAGCATAATGTTTAATGTCTTGAGCTTTTATTGAAATTA
TATGAATATTCAAGACTCCCTTGGTGTACAAGAGACAGATTGAGCTTTAGAGGTCTCAAAATTTGCAGATATGGTGATG
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AATCTTATCCTGAAGAAGTGGCGCTCTCCCTTGGTTTACAGTTGAGGTCACCCGCGGGGCAGTGTTTGGATACAGACTG
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TTGGGTACAATTTCTTGAAATAGATGCTTTCCCAAAATGTCCTGGACTCATAAAATATATGAAGGATTCTATTTGGCTT
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CAAAGCTGCCAAAAGTTCTGAAAGTGATCTGCCTGTTTTTTTTTCTCACACTGACTTTTAGAGAGGCGCTGGTATTTTC
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CACCTTTTGTTGTGTGTGCATGCGTGTGTGTGTGTTGTGCTTTTCAGGAGTGGCATGTGACTATGCTGTTTAATCAGGG
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TTGATTACAATCTATAGCACTGAAAGGTATCTATTTAATCAATAGTAAATAGAAGTGACATTGTTTGCAAAATTTTGGA
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GTATAACAATGCATAAGCAAACTTTGGCAAGAGGTAAATATAATTTGCCAGCTAAAGGTATAGGTATTAACTCCATTTA
TTTTTATTTCAAAATAAAATAATGATTTATTTGTTATGTTTGTTACAGCTATAAAATTTAGTTGAAAATTTTAAATTAT
ATGCTTCCTATGTGCTTTGCATTTTGTTAAATGTGATTCTCATGCTTATTGTATGCTAAATTGTACATTTAGAACTTAA

Fig. 6.269

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CATCAATGATTTGCTAACATTACTGTGCATATTTCCAACATATGGTGGCTTCTAGGCTCTCTTCATCACTAGATCTGAT
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AGATATTTTTATTTTGAGGTGTTATGGTATTGTAACAATTTAAAGCTATATGATAAATATATTTTTTCAAGGTTCCTTT
GGTCAAGTTCTGACCCTTTCCAAAATATAAGCATTAGCAGCTAAGAATGACTTTTTCATGTAYTTGAATACCTCACATC
TGTAATTTTAACAAGTTTCATTTGTAACAAGTTTAAGAGGTGAGAATGACATCTCAAATATCCATCATGAGTCAGTTTC
CTTCGGAAGCTTGAGAGGCTCAGTCCTTCCTTTACTTCCTCTTAATTTGAATATACARTTTCCCACAGAATAATTAATT
TTTTTATATGTGCTGCTTTCACTGTTTGGAGGTTCTAGTTTATCTTTCCAGTTGCACTGCAAACTCTTTGAGGTTAGAA
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CGATAATGTTTTATTGGCATAGCCAACTTGATATGATCATATCTATCATAAGTTGAATTGAGTGGAAGGGTTAGGGAGG
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CCATGAGTCACTCTATATATATACAGACACATATACACACCACACACAGGCACATGCACGCACAGTTAAATGCTATAAT
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CTATTGTAGTGTCATTTTTCTTTGGCTATTGAATGGATAATAATGCATGCTACTGGGGGTACACTTAGCTTTAACTGGA
ATATTTTTCCTTGGCATGGCTTTTGCTGCCTGGTAATATTCAGGCTAAAGGAAAGCCAGGTGTACAAGATATGAAATTC
AATTAGTGTCTGATTTGTTAAAGTAATAGCAAATCATATACATTTAATGAGTGTTGACTCTTGAGAAATACAATCTGAA
ACAGTTTTACAATGCTCAAAATAGATGTGAAAGTTTTTCAGCTGTGACAATTTTTTATCTTATGTGGGTAAAATACATT
TTTATAAGAAAGATTAATATATAGCTTATTAAGTTTGATTGAGGCAGAAAGAAGGATTGAAAGAGAAAAGAAGAGGGA
GAGGGAAGGAAAGGCAGGGGAGAGGAGGGGAGCAGGGCCGTGGAAGGAGGAGTGAGGAAGAGAAAAAGAGAGAAAGCAG
AGGGTTACATAATAAGGAAGGTACTTTTTCTCTGTGAGCCCAGAAGAGATTGCCAACCATGTTTTCAGTAATGGGATCA
GTGTTAGCATTAGGGCACCACTTACAAAGATGAGTACTAATTTTGAGGGCAAGGTGCTGATTTATCTGCCTAGGTTCTG
GCACACATGTTTAAAGATTCACCTAATTACTTTAGAGCAACGCCCCTCCCAAGTATTATAGAGAAGAAAGAGGAGAATG
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CACAGGCCAGAAACAGAAAGTGTCTTCTAGTTTTCTTGCCCTTTATAGTAATAGGGGTCATGGGATAGAAATTCTCAGA
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Fig. 6.27

CATGTAAAGTGCCTGGCACATAGACAACACTAAAATAAATGTCAGCTATTATTAATAATAGAATGTAAGCTCCACATGG
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Fig. 6.27\`.

CCTCCCTTGCAAATGTAATAACTCTGAACTGATAAACACATTGTACCTGTGTAGAAAAATGCCACCCAGAAGGAAGCTG
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Fig. 6.27B

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CTTCACAGCTAAACTTTTATTAATTACACCTGCTTCTAACAACAACAACCATGGCTAAAGTTTCATTAACCTACCAGTT
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AATTAACTTCCTTCAGAGTCACAGCAAAAAGCGATAGAGCTAAATTGATTACCTTGAAGTGCCTTAACCGTTTTGCTGC
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TCCAAGCCATAGTTATTCCAAATGGCTGGGAGTGCCTTAGGAACTTATTTCTGGAGTCTTTTGAACTATTTATATTATT
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CTTTTTAGTTTCTATCTTTAGGAATTTTCCGGTCCTTTCACAGAAAGACACTTTTTAAAGGAGCAATTCTTACTTCATC
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GGAGATTTTACTGTCAGAAGTCTCCTATTGCTATTGCTTCTTGGAGTTGGTTCCCATGCTCTGGGCACAGGAAAGCAAT
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GCCTGACCAAGGTGGTGAAACCCCATCTCTATAAAAATACAAAAATTAGCCAGGCATAATGGCAGGTTCCTGTAGTCCC
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TTCCCAAGAAGCATGTTACAATAACTTTAAGTGAAGGTTGTCACAACTTTAAGTGAAAAGTCTCCCCTTTCTGTCTAAT
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CAAAAGAGTTTTCCTTTGAGGAAAACTCAAACTGCCAACAGATATGCTTGGTATATCAGTTTTCAATGCTTTCAATTGT
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Fig. 6.274

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GAGTGACTGTGTTTTATTAGAATTGCAAGAAAGGGAACTTGAAAACATAAATTTAACATGGGGCAACAGGCCTTGGATT
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GGGTAGAGGCATCCATCACGATGTCAGAAATGTGTGTCAGACACGAAGGCAGGAATGAGGCTGTCGAGGAAGCCATGGC
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ACCAAATTGTTCAATTTAGTCTACATATGAAATTTCAATGTCAGAGAAAGGCCTTTAATCTCAAAACGAAATAAACTAA
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TCTCAGATATTCATTTATTCTATAAATATTTTTGAATACCTACTATGTTTCAGGCACTGATCTAAGTGTTGAATAAGTA
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GTTCATCATCCTGTTCCTTCCCCCAGTCTCCTGGGCTCTGTTGCTAATTATTGACCCAGGAAAGCCTCAGAAGGGGCCA
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TCTGTATTAACATATGAGACAGCAGAATAATAATGTGTCCATTCATTCCATAGATATTTCTCAAAGAGTTGCCAAGAAT
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Fig. 6.275

AAAGAATAGTGCTAAAAAAAGGTGGAAGATGGTTAGGTGTAAAATTACCTCCTCTCACAGGACCTGGCACATGACAAAT
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TCCCAATGTGGCAAGTAGAAATGTTCAATACTTTGTAAGGCCTCAGTTTATAAAGCAGTATCATTTGTGCCCACATTCT
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AGTGTTCCCAACTATGGAGTGCCCAATGAGCTTCTTGACAAACTCAGGAGAGTAACCTCCATTTGTGTGACCTCCTTTC
TTTGCTCTTTATTTGTGCTTTTCAAAGGGATGACATGAGCCCATAAACTACTCATTGGGTTGCTTGGTCAGAATCAGAA
CCAGTTACTTCAGGACTGTCTCATTTCATGATTAGTTGCCTTTGGTCTCATGCAGTGGTATCAGTTCATTCCTCTAGAG

Fig. 6.276

GTTTATGTTCCCTCAATCACCAGCAATACTGAGTGAATGATAAGAACTAAAGCAATAAAAAATGATTGAACTATTTTCC
TTAGTATGTAGTTATTGGACTTCTTCCAAAAATCCAGCACACTTATAAAAACCAAACTAAGGCATTTTGCTGGTTATTG
TGCCAATAGTGTGTCTTAATTAGTCCTGAGAATTTATGTGGCCCATGAAAGAGGCATAATTTTCCTAAGATTGCACAGC
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AGCACTTGCTCTCCTTTCATTCTGTGGCTTCTGTGCTGCTAGCAGTGACCAGTGACTCAGGAAGGCTGCATATAGTGAA
GAAAAAGTTGCCTTTCCAGGCACAGTTCAGTCCTGAGGCGCCTTTTCACACCATCTCATAGACATTTCAGAGCCAAACT
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TATAAAGTCTGAAAACATAGTTATTATATATCTTAACGGACCGAAGATGTCCTTCCTGATATTATGTATAGCCTGTGTT
TCCAGACTAAGTGCCAGGCACTATTCTAAGTTAGGCACGATTCTAAGTGTTTTACTGTTCATTTAGGCTGTCTGGCTAG
TGTTTTTCTCACCTTATCAGCATCCCATTTTTATTAAGTGAATTTGCCTAAACACACCTGCACACGCACATGCATGCGC
GTGCACACACACACTTTTTTGCATTTGGAAGCCTGGCTATTATGGAACTCTAGAACATGAGAGCTCAGGGTCAACCAC
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AATTTCCATGATTTTCTCCCAATCAATGGAAAATTACTGTCAGCTGAGCCAAAGTCTGCAGACTGTGAGCAAATGTCTG
TTTCCTTCCCACAACTGAGTGTTTGAAACTTTTTTCAATCAGTAAAATTACCATTAAAGGTCAGAGATTAGTTTTTCAT
GCATGATGGATTCCATTTGCTTTAAAAGTATTATACCAGGAGAGTAGACTTTTTTTCTGACTTTAGAATCAAATTAGAA
TTCAAATATTCAGAGTTTTGGGTCAACCTCAAACTATTTTATTTTGTTTATTTTCCCTTGACAAAATGTTATTGTTTTA
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TTGTCTTAACTAAAGACTGCCTGCAATGAACAGAAGGGCTATGGTCTTTTTTTTTATTAAGATAAAAGAATTTTCCAAAT
CGTTGTTTATAAAATAAAAGATTAGAAAAATTCACCTGTGTATAAATTGAACTAGACTTCTATAACATAGCAGCCATCT
TGTGCAGAAAGGGGCTGCTTACGTAGTTTATTTCTTTAACACACAGTTGCTAATTACAAAAACAGCATGCATCCAGAGA
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TGCATATATTCTGTAAGTAGCTGTCCTTCATGAAACAGACAACTTTTTCTTTTAAAAATCAAGGAGATTGTACAGAACT
TTGTGATTTTAATTACTGCATGGCAAACTAATTCAGTCTCATATCCTTTCCATTTAATAGGGATTTGTCCCTAGCTATG
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CTGAAAGTATCTGAAGGTAGAATGAATAGTTTATAGTAAGCCAGTCCACTCTCAGCTCTGAGAACATCCAGCTGCATAA
CCTCAAGGGAACTGCGTGGAAAAAATTAAGGGAAATTCTTTGGGCTTTAGAGCTTTTCATTTCCTATGAACAAGGCATC
TCCTGCCCTTGTCTCACCCATATCTCCATTGTCCTCATGTAGTCTTCTGCTGGTTCACTGTGTGCCTGGCAAGTCAGGT
TCTTACGCGAGGGAAAGAGCTGTTTTAAGTTGTTTATGAATAGAGAAAGCAGATTCAGTCAGACGTAATCTGACTCTGT

<p style="text-align:center">Fig. 6.27<u>2</u></p>

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CTTATCACAAAGAGGGCAGGCTGTGTGCGGGCTTCCTCCCATTTGGCCCATTTGGAAAATTCCTTCTCCAGTAGCCTGGT
CTTCTGCATCAGTGGCAGTTACCTGGAGGAGGGTCCTTAGGAGACCCTGGAGGGGGCTGGTGGGCTTGTAAAGCAGCCA
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Fig. 6.278.

ATAGTTGAGCCTGCATCTTGTCCCTGCATTTCTCCTTTTCCTTAGCCCTGTCCTCCTTGTCCAGATCTCAGTTATAAAA
GACTGAGGAGGCTAATTTGAGGATTTGTGGCATAGGGGCACTGGGTTCTAAGGCTGACTTTTGTAAATTTTCCTAATGT
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TTCCAAATTAATCTAAATGTAAGAGCCAATTTGGGGAAGCCCTCTATGAGCCTTTTGGGGTCATCTGAGAACTTTTTTA
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TCATTGTTCAATTCCCACCTATGAGTGAGAACATGCGGTGTTTGGTTTTTTGTTCTTGCGATAGTTTACTGAGAATGAT

Fig. 6.279

GATTTCCAATTTCATCCATGTCCCTACAAAGGACATGAACTCATCATTTTTTATGGCTGCATAGCTTTCCATGGTGTAT
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Fig. 6.286

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CAGACAACCCACAGAGTGGGAGAAAAATCTTCACAATCTATACCTCTGACAAAGGGTAGTATCCAGAATCTACAAGGAC
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GGGTGATCAGGAAACACTTCTACACTGCTGGTGGGAATGCAAACTAGTACAGCCATTATGGGAAACAGTGTGGGGATTC
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GCAAACATCATATGTTCTCACTGATATGTGGGATCTAAGCTATGAGGACACAAAGATATAAGAATGATACAATGGACTT
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TTATGGAAAAAAATTTTATAAAAAGTAATAGATTTAAGTCAGAAGTTTATTGAAGCAAAGTAAAGTACATTCGGAAGGG
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TCTTCCTGATCTCCTCCCCTCATCCTTCTTGGGGGAACTGTTGGCTAATCCTTGCATGCGCAGTAACTTGCTAATATCT
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```

Fig. 6.281

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ATGTTTTCACCAAATTTAAGATAATCTGTGGTCAGTGTGAGCTTTGTCTTGATTTAGGAGGAGGAAAGCAAAGTTCCAT
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GTGAGCGTGGTCGTGGTGACCTTTTCATACTGTTGCAGAGCTGAGTATGAAGAGATGACTCACAGTCCTCCAATGCAAC

Fig. 6.282

ACAGGTGACCCTGCAGCCAGATTTTGCCTTCAGTGGTATGTGACTCCCATGGGGTCAGGAGAGTATCTCAGACATTGAA
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Fig. 6.283

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TATTTTTGATCAGTTTATCTTTTATTCTTTCTATTTAAGATATGAGTTGTTTACATACTATAATAACAGTGTTATAATA
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ATGCATCTTTACCAAAAAGAGAGGTAAAAGAAAGGAAGGATAATCCTGCCAGAGATACATATGCAAAGATCTGAAAGTA
ATCGAGAGTGAGGGGGTTGCAGATTGGACAACACTTAGTAGTGGCTCCAGATAAGGTTCTTAAAGACTGGCCAGGATGCA
GCCTTTTCATCCAGAGAAACAGCCATCTCATTCATAGACAGTGGTGACTGATTGGCAGATTTTATAAGATGACACAAAC
ACCCTCCCCATTGTCCTGCCAAAATGTGGGGAAACTCTTCCTGGAAAAGTTATTTCTTTGAATTGAGCTTCCAAAAGGT
TCCTATTAGAATTCAAATACTCTGTCTGGGTTGAATATCACATTGCATAATAGTTTCTCCAGATTAAGGCCATTTTTCC
TAAATATTTAACAAAAAATTTTTCGCTTCTTATCAATGATGCTGGCGTTGGTTCAGTGCCTGCATAAGACTTCTTCCAG
TGTATTTCTTTACCCTGGCAACCAGTTCCTTTTTCTTTGGGAGAATTTTTTTTTTAATTATAACACTATTGTAGGAACT
CCTTTTTGGCACAGAAGGCATCTAAAGTAACTTTTAGAGATAGAGGCTTATGAAAAACAAGAAAGAGGCAAGACTCAGT
TTTTGAAATCTAATTCCAGCCATGAAGCAAATGCCACAAAAGGGCACAGGAAGAAAATCTGTAAAGGGCTTATCTACCA
CCGTTGACCAAAGATTTATTCTGCTGTTAAGCAAATACCTTGTAAGCCAGATATTGTGCTAGGTATTCTGAATACAAAG
ATGCAGAAGCCTCATTCCCTGTTTTCTTTTTTTTTTTTTTTATTATACTTTAAGTTTTAGGGTACATGTGCACATTGTG
CAGGTTAGTTACATATGTATACATGTGCCATGCTGGTGCACTGCACCCACTAACGCGTCATCTAGCATTAGGTATATCT
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TCTCATTGTTCAATTCCCACCTATGAGTGAGAATATGCGGTGTTTGGTTTTTTGTTCTTGCGATAGTTTACTGAGAATG
ATGGTTTCCAATTTCATCCATGTCCCTACAAAGGACATGAACTCATCATTTTTATGGCTGCATAGTATTCCATGGTGT
ATATGTGCCACATTTTCTTAATCCAGTCTATCATTGTTGGACATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATAA
TGCCGCAATAAACATACATGTGCATGTGTCTTTATAGCAGCATGATTTATAGTCATTTGGGTATATACCCAGTAATGGG
ATGGCTGGGTCAAATGGTATTTCTAGTTCTAGATCCCTGAGGAATCGCCACACTGACTTCCACAATGGTTGAACTAGTT
TACAGTCCCACCAACAGTGTAAAAGTGTTCCTATTTCTCCACATCCTCTCCAGCACCTGTTGTTTCCTGACTTTTTAAT
GATTGCCATTCTAACTGGTGTGAGATGATATCTCATAGTGGTTTTGATTTGCATTTCTCTGATGAACAGACACTTCTCA
AAAGAAGACATTTATGCAGCCAAAAAACACATGAAAAAATGCTCATCATCATTCCCTGTTTTCAAAGAAACTCACAGCA
```

Fig. 6.28५.

TTATGGAGGCCCAGGTTTCTATTTGGGCCTCCATAATGCCTTGTGCTCTACCAAGAATGGTAAAACAATCCTTTCCAGT
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AGGATGAACATCTAGAGATTTGCATGGCCAGACACCTAATTCAGATTGCAGAGCAGCAGGATGGGAGGCGTAGTCCTGA
TTTAACTCTTGATCAAAAAGAGGGGTAAAAGAAAAGAAAGATAATCCTGCCAGAAATGCGTGTGCAAAGATCTGAAAGT
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AATCAAATACTAGTGCAGTAACATATATTTTTAAGTTTTAAAGCTGCTTTTCTCCATAGCTTATTGATTACTCTTTTAA
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TTTAGTCCTCAGAAAATTCTCTTCTATCTCCATTTTATAGCTGAGGAAACTGAAGCCAGGGAAGGTTAAATAATTTGTT
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GAGAACAATACTAAAGTGAAGCAAACTGAGCTGCCCCAGTCGCCCAAAACATACTTTGGAAGATGGAAGAGTTCTAAAT
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TGCACCATTTTTATTATATTAATTCATTGCCACTGTACAACTAAAGAGGATGGATGAATTTTAAAAACTTCCAAAAACT
TGGTAGCATTTTTTAATCTCTTTCTCTTCCTCTTTTCTTTCTGTCTTCCACACACACACACACACAAACACACACAT
ACACATACATACATGCACACATACACATCATGAAGAGCAAGCTTTGGAATGAAATATACCTGGGTCCAAAAATTTTGAA
CAAATTGTTGACTTTCTTTATGTATGAAATTATTATTATCACATCTACTTTGGAGGGATGTTGTGATGTATAATTAAGA

Fig. 6.285

AAGTATAGTCTACTTAGCATGTAGGTAATTAATAATTAGTAGTTATTATTATTATCCTAACCTGACAGTTTATGAAAGA
GGTAGGAAATCTGAAGATAGGAAAGCCTTCAAAATATAATACTCCGGACTTCTCCTTTGGGAATTAAGAAATGTAGCTC
CAAGCAAGGTTCATGCCAGTAGGAAAGTCCTTGAATCCAACTGTATTCCTAGTAAGTGTAATAAAATAAAAGAAACCTC
TAGAAATTGCCTCAAAATTCCCCTCCAGATAAGGAAAATAACACAATATTTCTCAATAATGAGGAACTGCTACAGGAGT
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ACGCTCACCATTGGATGATAAGAGAAAGGGAGATCACATTTTAGGTGCGCACAATCTACCTGTATGCAATTGACGCTTT
CCATGTAAGTGTTGCCAAGTTGTATCGGGGCACCATTAGTGGTATGAGACAGACTTTAGGAGTTATTTTGGACTCCTTT
TTTTCTATTAATATATCTTATATTTTGGGGGCAAATTATACCAGTATATTAAATCTATTTACAGAATAAATATAAAGTT
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GGAATAATACATTCAATTTTTCAGTTTAAAATTCCAGTATGTTCTGATCCAAGGGTGCCTGTTACACTCTGCTGAATTT
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AGTCATCAAGTTCTCTCAACTTTGCTTCTAAAGAGAAAAGTTTAGTTTTAGTGCTTCAGTGAAATACTTTTTTGAAAGA
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GGCTAGGCTGGGCGCTGGGCTTTTCTTTTTTTTTTTTTTTTTTTCCTTTCTCACTGCCCTGCGGTGTTTTGAACTGC
CTTCTTACAGACGTCATACAGCCCTTGAGGAATAGTTTCTGCCTGGTGAGATTGAATGATAGTTCTCATTCACAAACC
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GAATGTATTAATCAGAATAGTTGAAGACTTATTTTCCTTTTTATTTTTTTTCAAAATGAGCATTATTATGAAGCCAAGA
TCCCGATCTACAAGTTCCCTAAGGACTGCAGAGGCAGTTTGGTAACGTTCTTTTCTCTCATGCTTTTCCCCTTTTCTCT
TTTAAGATTGACGTACTCCTTGAGTATTTAGTAAGTTGTGTGATGTCGAGGCTTTGTGAAAGAAGGCAGTATTGGCGGC
TCTTTTATTCTTTATTTTGTTCCCAAACTCATGTGCTTTAACCAAATGGGTGCTGATTTTTTTTTTAATTCCTCTTGGA
CTGTAACAATTTATCTGATGATAATTTTTAAAGGAGGAAAGAAACTTGCAGATATGTTGGGAGTTTTGAAAATGAAAAC
TTGTCATTTTTCAGTGTTTGATTCAGTTGCTTGTTTTCTTATCTTCTTTGCTTGCTGCAAGCAGGCTGGTGGTTGACAG
GCTTTGCCCTTGTCTTTAAAAGCAATACCCTCACTTTTAGCACAGATGTGTTAGAAATTAATAATGTTATTTATATTTA

Fig. 6.286

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ATCATACACATGAAACAAACTTGAATTTAACTATGTGGCTAAATGTATATCAAGTTGCTTATCATTCATTCATCTCTTA
TGTTTTATTTTATTAGAAATGATTCCTAGTAATTATATTTTTGGTTATTTTAATGCTTTTACTCTGATGAAAAAATATG
TCAGTTTCAATGTATTCTAATGTTCTATTATTTCCCCAATGGTGATTTGATATGCTAATCAGCATATGGCATGGCCCTT
AAGGAGTATTTTCCAACAAAGTAACTTTTTTTTCTACAATAGGTATTTACAAAATACTTTTATGGCTATTTTAGGGGTT
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CCTTTGCTGTTATTGTAGTGTTTTACAGTCAACCAGAAACAAGAATTGCCCCATCCGCAGTATTTCTGTGAGTTTTAAT
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TAAATACGCAAACAAATGGAATTCTCATATTTTCTGCCTGTGCAATATATATTATGATTTGGTTTAGGTATGTGACTAC
TGTCAAAGTTGGTTCAGGGTTTTGAGCATGAGGTAAACTTTTTTTGGTCCTATTACCCAAGTTAGTGATGTATCTGTTA
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Fig. 6.287

TGAAATATACTTAAAGATATACAGCTTTTAGAAATGATTAAGATACCTTGAAATATTTGATGTATTTAAAACATAACTA
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CCACTGTACTTCTAACATGCTCTGTGTCCCTGGAGGAGTCACCTAGTCCCTCTGAAGCCAAGTCTACTGTCCTGTAAAA
TAAAAGGGGCAAGGCAGGTCAATGGATTTTAAACACGTTTATTTCAATGGGACATTTTTTATTAATGAAATGTGAGTTG
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TAAAAACATAGATATGTGTGAAATATATAAGTAAAAAGTATAAGCACACATAAAACAATAAAACAGCCACTGAGTTTGT
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GAAAACCACTAAGCTAATGACTGTTAAGATCACTTACAGTTTTACTCTCTGCAGTGCTGCCTTACCGCGGGAGAGTCAT
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Fig. 6.288

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Fig. 6.290

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TTGCTTGAGACTGGGAGGTCAAGGCTGCAGTGAGCTGTGATTGTGCCACTACACTCCAGCCTGGGTGACAGCAAGACCC
CATCTCGGGGAAAAAAAAAACCCAGATGATATGGTTAACCATATTCAGTCATTATTCAGTTATTAGAAAATAAGATTTA
CAAGGCATCCATGGAGGGGAAAACAATTACACACCTGGTTAGTTGGGCTGAGGCTTGCAGAGATAAAATCACCTGCACA
CTGTTGCAGAGCCAGTGCTCCAACCTAGACTTCCGGACACCAAAGCCTATGGCCATTAAGCACTCTGCTGGACTGTATC
TTGGATAGTTTGCTTTATGGGGAACGTAGTACAACTTTACAATACAACTTTAAAAATAAAGTATAGCAGAGTAGCAGTT
TGTCCACAGTCAAATATGAAATATGTAAACATTTCACAGGTTCTTTTTTTAATTTTTATTTTAGGTTTGGGGGTACATG
TGAAGGTTTGTTATATGGGTAGACTCATGTCACAGGGGTTGGTTGTACATATTATTTCATCACCCGGGTATTAAGCCCA
AAGCCTAATAGTTATCTTTTCTGCTCCTCTCCTTCTTCCCACCCTCCCTGATCAAGTAGACCCCAATGTCTGTTGTTTC
CTTCTTTGTGTGCCTGAGTTCTCATCATTTAGCTCCCACTTATAAGTGAGAACATGCAGTATTTGGTTTTCTGTTTCTG
TGTTAATTTGCTAAGGATAATAGCCTCCAGGTCTATCCATGTTAAAAGACATGATCTCATTCTTTTTTATGGCTGCATG
GTATTCCTTGGTGTAAATTTACCTCATTCTCTTTGTCTAATCTGTGACTGATGGGTATCTAGGTTGATTCCATGTCGTT
ACTATTGTTAATAGTGCTGGAATGAACATTCGTTTGCCTGTATCTTTATGGTAGAATGATTTATATTCCTCTGGGAATA
TGCCCAGTAATAGGATTGCATGGTCAAACGGTAGTTCTGCTCTTAGCTCTTTGAGGAATTGCCACACTGCTTTCCACAA
TGGTTGAACTAATTTACACTCCCACCAAAAGTTTGTAAGTGTTCCCTTTTCTCTACAACCTTGCTAGCATCTGTTATTT
TTTGTCTTTTTAATAATAGCCATTATGACTGGTATGAGATGGTATCTTGTGGTTTTGATTTGCATTTCTCTAATAATCA
GTGTTATTAAGGGTTTTTTCATATGCTTGTTGGCCGCATGTATGTCTTCTTTTGAAAGTGTCTGTTCATGTCTTTTGC
CCACCTTTTAATGGGGTTGTTTGTTTTCCTCTTCTAAATTTGTTTAAGTTCCTTATAGATGCAGGATATTTGACCTTTG
CCAGATATATAGTTTGCAAATATTTTCTCCCATTCTGTAGGTTGTCTGTTTAACTCTGTTGATAGTTTCTTTGGCTGTG

Fig. 6.291

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CAGAAGCTTTTAAGTTTATTTAGATCCCACTTGTCAATTTTTGCTTTTATTGTGATTGCTTTTGGTGTCTTTGTCATGA
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GCCAGTTATCCCAGCACCATTTATTGAATAGGGAGTGTTTTCTCCATTGCTTTTCTTTAGCTTTGTCGAAGATCAGATG
GTCCTAGGTGTGCAGTTTTATTTCTGAGCTCTCTATTCTGATCCATTGGTCTATCTGGCTGTTCTTGTACCAGTACCAT
GCTGTTATGGTTACTGTATCCTTGTATTATAGTTTGAAGTTGGGCAAGGTGATGCCTCCAGCTTTGTTATTTTTTATTA
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TCTAACTACATTCTATTGTTGGACATCTTTATATTTTATCCAAATAGGAAACATTAATTTAAAATTCTTGTCATATAA
TCTACAAAATATTTATATTCAAGGCACAATGACCCTTACATATTCTTTTTTTCTTTTCTTTCTTTCTTTTTTTTTTTT
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CTTAAGCGATACTCCCACCTCAACCTCATGAGTAGCTGCAACAACAGGCGTGCCCCACCACTCCTGGCTTGTTTTTTTT
AATTTTTTTGTTTTTTTTTTTGTAGAGACAGTGTCTCCCTATGTTGCCCAAGCTGGATTCAAACAATCTGCCTGCCTC
AGCCTCCCAAAGTGCTTGGATTACAGGTATGAACCACCATGCCCAGCCCTTAAAATAGTTTTTATTATAAAGGCAATTT
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GCCAAAGTGAGAGGACTGCTTGAAGCCTAGAAATAGAGACCAGCCTGGCAACAAAGCAAGGCCCTGTCTCTACAAAAAA
TAAAAAATAAAAATTATTTTTTTATGGTGTGTCCCTGTAGTACCAGCTCTCAAGAGGCTGAGGTGGGAGGATTGTGTTC
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TATACACACACACAATACGACACGTATAGAAAAAATAAAAATACAAATATAAATTTCTATAACCTCAACACACT
CCCAAATAATCACTGCTAATTCTTAGTTATTTTCTTCTATTCTTTTTCCAAGCAAGTATGATACTAATAGCAATTACCT
GGATTGTACAGTTTTAATTTCTTTTTTTAATTTAGCATTTTATCATGAGCATTTTTCCATATCACTTAACATTATTTCA
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AGGCTGTTTCTAGCTTTTCCCAATTATTAAAAATTATCAGCAAGGAACATCTTTGAACTGAAACATTGGCTTATCTCTGA
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TTCATTAAAAAAAAATCTTTATCCACATATTAGGTTAAAGTGGTATTTCAGTGTTGTTTTACTTAACACTTTTGGACTAC
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TTCTATTGGGGTTGCATAGTTTTTTACTTTTTGTCCCCTTTTTACTTTTGTTCATGGTGTTTTATACAGTCAAATTTATTGA
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AGGAAAAGCTCCATCTAGCCAGGCATATTGGCAATAGTGTGCCCTGACTAGTCTTTGGGGGCAAAACATAACAGTCTCC
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AAACCATATTCACCTCTCCTAAAGTGCCCATTACGGAGGCTCTGGGAAATTGAAGTTGCCCTTAATCTTGAGTTACAAT
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CATTACATAACATGTGTCATTAATGAGTTCAGTTAGCTAGGCCATGGAATAGATATTCCTGTAAATCAACTCCTTTACA
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ACTATGTGACATGATTTTGAAAACCATATTATATTGGTGCATGAATGTATATGTGTGTGGGTGTAGGTAGTTTACAGAC
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ACACACATGTGCATATACACACACACACTGTGATAATGTATCTGTGTATTTGAGGGTTATAAATATTTAGTTGTAGAGT
TCTGACAAAGTAGTAAAATAGTCTCACTTCATCTGGATAAAGATCACCATCTGGAACTATAAAAATTGCAATGATTCCA
AATTGTTGAATAGTTGGATTGCATATTTACTTTTCAGTAGTATGTTGGCATGCATGTAGATCCAGCCTTCCTTTCAACA
AAGAACAGTGGTGGAAGATTCCCTTAAATGGTTACTCTTTCCTCAATAAGAGCAACCATATAAAAATTATAGAACTATT
AGTCATCATAGTTGAAAGTATCGCATAAGATTAACAGAGTCCCCATCTGGTGATATGTTTTTACATCAGATTTATTAAG
ATCAGAGCGGGTTTTAACTAGAGCAATGACACTGCTATTATTAAATAAGAGACGGAAGGCCTAATACATAATTGTCTAT
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Fig. 6.292

TTCTTTCTAGACATTTATGTGTTTTTATTAGGATAATGAATACAGAATTATCAACATCATGATCATAGTTTTTTTGGTT
TTTAAGTAGTATCTGTAATGGCAAGCTCATTTTTATTTTATAACCTACCCACACACAGACCTACAGTGAAGCAAAACAG
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TGGTACCTTTCTGAATAGATGTCATTGTGTCCTTCAAACAAAGCTGACACTGTAGAAAAGAAATGGATTGCCTTGTCTT
TTTACCAGTGAACATCTTCACCTGAACAAAACTCATCAGGAAAAATAAAGGATTTTCGAAGTGTAGTTGTTGTTTAAGC
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TGAAATATCCTTGTATGGCAAGAGGGGAATGGAATCAAGCTGATTTTTCCATTTTTACAATGTGCCTGGGATTGTGCTT
TGCAGTTTAGTGGCATTTTCTGATTCAACCTCACAGAGCCCTGCATGGTATAATATTGTCTACATTTAAGATGAGAAAA
GCAAGATGTGGAGAGGCTAGGAAATCTTCCCAAAGGCACGAAGCTCCTGGCAGAACCAGGATTTGAGGCCAAGTATCAA
GGTTACAGTACAGATAGACATACATACACTCAATTATAAGTAAAGTTTTTATGAGGCTGGGTTTGACAGCAACATGATA
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CATGTCTGTGAGCCTAACACGGCTCCCAGAAGGAAAAAATATGCCTCAAGGAGGCTTATATGATATTGCTTATTTAGGG
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CCATTATTTTGGAGGAAGCTGATATTGCCTGTCACTTCCAACATGTCCTTGTGTACCCTAGCTCATAATTGCAGCATTT
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CATCCCAGGTAATTCTAAGGCCATATTGTGAGAAAAGCCAGTATAACGATGGAGAATTCTTATGTTGATGCTCTGACAC
TGGCTCTACATCTGTCCATAATTTATTTAACTCCTCTCTGCCTCAGTTTCCTTATCTATAAAGGAGGAAAGGAAATGCC
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TAAATACTCAATAAATGTGAACTCATTATCGTTACTGTTGTCATTGGTATTCATATTGATATCATTATTCCTGCATTGG
AAAATGTAAATGTACAATTTTAAGTGATTAGCATTGCTGGTGGATTATTGATTGCAATTTGTCCTGCTGTCTCTTCTGA
CATTGCTAAATTTCATTTACTTAAATATTTCCCTTATTTTTCTCTTGTTCCCACCCATGCACCCCAGTGGAGTTGAAAT
TGAGTTGAGATCAAATGCAGCAGGTGTTGCTCAGAGAATTTGGTAAGACTAGTTGAAAAAGATCAGTGAAACTTTATC
AAAAATAGAATAGTGATTCTCCTGGTCACCTGCTTAGAGAACCCATTAAGAAGTGTGAGGTTCTCCAGGCCACCATAGA
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GATCATAGCACACTACAGACTCAAACTCCTGGGCTCAAGTGATCCTCCAATGTCAGCTTCTTGAGTAGCTGGGACTACA
TGTGTGGGCCACCATGCCTGACCATGGAGTTCTTAAAAATGGATATTGACATACATATATAGAAAATTCATTCAATAAA
TAGTTATCACTTTCCTATACCTGGTGTGAGAATTATGCTAGATATTGGAAATACAGAAATGAATATATTAATATTAAAG
TCACTTAACTAAGCTTTTCCCTGTGATAATCTTTCTGAAACAAAGCAAAATGATACAGAATTCTTTAAGTACTATTCAA
TTTGTGGCTATTTCCTCCTAAAGATCAGTGTATCTGAACTTGCTGGCTGCTAGATATTTTAGTCATTTCAAAATGTACT
GATTTGGCTAAAGAATCTACTTTGACCAAAATAGGATACCTTAAAATACAACATCAGCAAAATATGTGTAAAATCCCCA

Fig. 6.293

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GAGAAAAGCCCTCTTAAATGCCTACTTATTTCAAGTCAAATTTAGTTAAACTACATAACTTAGTCCCCTGAGTGTCAGT
GGAATTTCTCCCAGAGCTGTGACTTCGTCAAGTAAAGTTACCCTCTCTCTTGACCTTTGGAAAGAGATGGCATTTGTTG
ATAGTTTTGTGTGTGTCCTTAAGCTGGGCGCTTAACAAATATTCTCTCTAACAAATATTCTCTCATTAAAAACCTGAAAC
AGCCTTTTCTTACACCTAGAACTTTGTAAAGAATATGTCAGGAATAGGACAATCACCTTTTAAGGCTCAGACAGCCAAG
AAGCTGTTTTCTTTTTCAGTCAAGTGTAGAGAGCATCCATGACTGCCAAGTTCTCAGCCATGGCTGGTACAGGCGGGTG
CAGTAGGAGGCACAGTTGCCACTCCTCAGAAAGAACAGGGACATGGCTGGACCCATTGTCCTACTTGGCTCAGGGCCAG
GCAGGGTAGCAGACCTAGTTGTTGAATGCCCTTTTATTGATAGTTATTTAACTTCAATAGGATCTTGTTTTTATGGTAG
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AAAGCCCTTAGCTTAATCACTAGGCTATACTGAACTTTATGGAATTACATCCAAAAGGGATGTGTGTGTGTGTGTGTGT
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CCAGAGCAGGGTCTAAACCTATTGGGATACTATACTTGTGTTATCAACTGAACCACTTGGTTAGTTCACTAGGAAGATC
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AGAACTATGAAGGCTGAAGGAAAATAAGTGGGTGAGCACAGGTGCAAATAAATAATAAATTTGGAGCATTCTATTTCGT
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CAAAGTGCATGTAGTTTTTGCCACAGTACGATGCTTGGGGAGCTAAATGGCATTTGGGAACCTAGAGTTAAAGCATCAG
TATTTTTTACTAAGGGGCCATTGGATCCTAGAGAGGCAACGAATTATAATGGATAAAAATACAAATTTCAGGCAAGTTA
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CACACCTATATGAGGGCAGTATGATTTCCCCATGTGATAAAGAAGGAAAGGGAAGCTCAGACAGATTAGATATATTGTC
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TAAAATAATGGATGTAAAGAAATTGGCAAATGGTCAAGCAAAACATGAATGTTAATTTTATGATGATTAAAGTAAATGG
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TATTTTAACCCTGAGATAATGCTTTATTGACAGTGTGAATAAGATGTTTGGAATTGTGGAAGGAAGAACTGGAGGTCAT
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TTCATTATCTGTAACACATACTCCAGAGAGTGAGAACAGTATGACCAGAAGTATCTTTGGAGGGGCTAGAGACAAGATT
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Fig. 6.294

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TGAAGGGAATTAGGACAAGATTTTAAAGTAACCTAAGTGCCGTGATAAAGAATCCACTTTTATAGGCAAAAGTAGTTAT
TCAAGGAAGTAAAATAATTACATTTTCTAGCCACTGCAAGCTATCTCTTTTTCCTTCCTTTTCTTCCTTCATTCCTTCT
TCCTTTCTTCCTGCCTTTCTTTCCTTCCTTCCTTCTCTCCCTCTCTCCTTTTTTCCCTTCTTTTCTCCATCCCGTTTAAC
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GACAACACATCAAATAGCTATGACAGCCTTTTGAAAATAGAGATTCCTGGATCCAGCTTCAGCTTTACCGACTCAGAGT
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ACATTCCTGCCCATCAACAGTGGATTGCAAAAGCAGGGAGGAAGAGAGGGTGGCAAGGGTCAAAAAATAGCTATCAGGT
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GTGCATGGACCCCTGGATCTAAAATTTAAAAATCAATAAATAATACAAAAGAAATACATTCATATTTTTCTGAAATATT
CTTCAGAATATCAAGTGGGAATCCCTTTGTTTTGCAAAGCTGGTCTGATATGTTTAAGTAAATTTAACCAGATAGTTGT
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AGAGTACCAAAATGAAGGACTCTTGCTAAAATCCTTTTCCAGCTTTTTCATTCTACTATTTACAGACATGTAAGCACAT
CCATTCATTTCAGCAAAATGTAACATTCCACACAAAGGTTTTGAACATTGTGCTCGGCTAGAGAATATTTCTAGTGAGT
GCTCATAAGAGACATTAAAATAAGCATTTGTCTTTCATTCAAGCTTTATGAAGGATTAAAAGTAATCCAATTGTTCAAT
CCTTCATTTAAATCTTTAGTCCAAAGAACAGAAGATTTGGGATTGAGTCGTAATCCAGCCATTTAAATCTATGAGACTC
TAGGCACATCATTGCCCTCCTTCCTGAGCCTCAGATTTTTCTTCAGCAAATAAGGATAAAAATCTACACTCCCAATCCC
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CTGAAGGGCCACATACTTTCGTGGGATTAGTGGCATATGTGGTATGGAAACTCATAATTACATTGCAAATTTAAAGGAC
AGCTCTGTAGGAAGAAGCCAAGAGCAGAATAAGCATAGATGTGGTTTGGATTTTATTTTTCCTCTTGTCAAATTTAACT
TAAGTTCTGAATTCTATAAAAAAAGAAAAAGAGTGGTGAAACAGTCATATTTTAAGATTTTTAAAAGTCTTAAAGACAT
GGAAAAAGCAAAGACGATACCTACACTGCTTATTTAAAAAAAAAACTCGATTTGAGTTTCATGAAGTACTGGCATTTGCT
CACTCTGTAATTCTCAAAGACTATTTTCAAAATTTGGTCAAATTAAATTTCAAAGGTCAGCAAAGTATATAATCATGTT
TGGGTTCTTTTTTTCCCCCAAGTTTAAAAAACTGACATCTATCCTTTTTTTAGGCTATCTGAATGTATGAAAAAAGAGTA
GAAGTTATTTTACAGCATATATATTTTTCTGTAAAAGTAACTACATTTAACATTAAATTATTTACCAGTGGTATTCATTTT
ATATAAGCAGGCTGGAGATGGAGGTTCTATTTACATATTTCCACTGTCATGGTACAGTATAGTACTAAGTATTTTACAG
GCCAGCAATCAAAAGAATTACAATTGCTACTAGGAAACACTAAATCTGAGGATTCTGTCATGACTATGTATAGCTGGTT
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TGGATTGTATAATAGTTCTACTTTTAGTTTTCTGGGAAATCTCTATGCTGTTTTCCATAATGGCCATATTAATTTATAT
TCCCACCAACTAAGAATTCCCTTTTCTCCACTTCCTCACCAGCATCTATTTTTTTTTTTTTTGGTCTTTTAATAATAGC
CATTCTAAGGTAAGATACCTCACTGTGGTTTTGATTTATAGTTCCCTGATGATTAGTAATGTTGAGTACTTTTTACATA
CCTGTTGGTCATTTTACATCTTCTTTTGAGAAATGTCTTCATGTCCTTTGTCCACTTTTTGATGGGATTATTTGGGTTT
GGTTTGGTTTTGTTTTTGCTGTTAACTTGAGTTCTTGGCATATTCTGGATATTAGTCCGTTGTCAGATATATATTTTGC
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Fig. 6.295

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AAATATTTTCTCCCATTTAACATGTTGTCTTTTCACTCTGTTGATTATTTTCTTTGCTATGTAGAGATTTTTGGTTTTA
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TGTGGCAGCTCTCCTTGCTCTCAGTCACGGACCAGGATTCTCCCACCTTCTGTTTCTACCATCCTTCACGCATCAGCAT
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CAAGCCCCATTAAGGCAGAAAACCCATCTGTTTGGATTGTTGAGGTTGGAAACTGAATAATATCACTTCTCCAAAATAG
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TGGGTACTGAAAATAGAGAGGGAGGGAGGGAGGGAGGTGATAGGGAGGGAGGGAAAGAATAAAAAGGAATGAAGAAAAA
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GCTGCATAGTTTTCCATGGTATATATGTACCAGATTTTTCTTTATCCAATCTATCATTCATGGACATTTAGTTTGATTC
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TTTCCACAATGGTTGAACTATTAATAATTTACATTCTAACCAGTAGTATATAAGCGTTTCCTTTTCTCTGCAACCTTGC
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GTATTTCTTTAATGATTAGTGATATTGAGCATTTTTTCATACACTTATTGGCCATATGTATGCCTTCTTTTGAAAAATG
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Fig. 6.29E

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GTATTAGACTTTTGTCAGGTAATACAATTTACAAACATTTTCTCCCATTCTGTAGGTTATCTGTTTACTCTCTGTTAAT
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AGGTATCCTTCTTTTAAGGCTAAATAATATTCCATTGTATGTATATACCACATTTTTTAATCCATTCGTTCATTGATG
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TTCACTGTGTTTTCTCCCTTGCTGTGCAGAAACATTTTATTTTGATGTAGTCCCACTTGCCTATTTTTGCTTTTTTTGC
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AACAATAGCTGCTAAATAATGGGAGTGTACTAGCTGCCAGGCAATGTGGTGAATGCTTTCCAAACATTTTCTCTTCTAA
TCCTTATAATGGCCCTAGAGCTAGGTATTGTAATTATCTTTATCAGCAGTGAAAGCCTAGAAAATACAGCAACTTGCCC
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Fig. 6.297

TAGAGCACCCAAATAGGAAGTGGCTGAACCAAGATTTCAAATTTAACCTGTGTTTTCTAACTCTTAAATAAACATCTTA
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TATGTATACATGTGCCATGCTGGTGCACTGCACCCACTAACTCGTCATCTAGCATTAGGTATATCTCCCAGTGCTATCC
CTCCCCCCTCCCCCCACCCCACAACAGTCCCCAGAGTGTGATATTCCCCTTCCTGTGTCCATGTGATCTCATTGTTCAA
TTCCCACCTATGAGTGAGAATATGCGGTGTTTGGTTTTTTGTTCTTGCGATAGTTTACTGAGAATGATGATTTCCAATT
TCATCCATGTCCCTACAAAGGACATGAACTCATCATTTAAGAAAAAGTCCAATAAAATATCAGTCACTATTTTTAGATC
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ATTGTGAACTTTGTTTTTTGGATGTCATTTAAAGGGTTATTTTCATGAGTTCCTAAGAAATAATTTAGGCCTTTAAGGT
TATTTAACCCTTCAGTAGAAAATAGTTTCCTTGTTTAAGAAAATGATCTCCATCTAGTGGACAAATTTTTATATTACAG
TATACAAAGAAAAATATTAAAGCCCCTAGAATATCTCATATCAAGCACTTCCTGACCTATTAATAAATGTTTTGGTTTT
AGTGCTAATATTATGGCTTAAAAGTTGTAAGATTTAAAAAATCATAACTATCTAAATGACTTAAGGTATTTAGCAATA
TTTGTTTCAAAACTTATAGTGGAGTGTTAAGACTTGCTTGATTTAATTGGAAAAATTATAATTAAAGAAAAAATTACTG
ATTTATACAAATTTGGTGTTTACTCAGTTGAACTGAAAAAAACTAAACCAAAACTCACACTTCTGTATCTCTTACATTT
CTGTTCATGCACAGGAAGGAGGGGGTATTTTCTTTTTTAAAGTGTAGCAATAAGAATATCTTGATATTAAAGGGAAATA
AACATAAACATTTCTACAGGCATTCACATTACTAGGTCCTCCTCATGCTGAAAAGCTGCCATGACTATCTTCTTAGAAG
AGAAATCTACTTTGCCAAACCCCCACTATTTAGAAGTTTTTAATGTCTTCCAGTTGTGTACTAAATACCTTCAAAAACC

Fig. 6.298

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TTCTTAAATACTACTCTTCATGAAAACTTCTCAGATATCCCAGCCTGAGTTAGTCATTCATCCTTTATTTTTGTATCTT
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CGTCTGTAAAGTGAGTCTGTTCGACTTGACAATCTCTCATTGTCCTTCCTGAACCAAATAAATATATCTATAAAGAGAC
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TGATGGATTATTTCGGAGCCACTGTTATTTGATCACAGATTCWAAAGTGATCCATGAAACATCTTCCAATCTTAGAGTC
ATAACTCTATTTATTAATGACTCCGATAAAGAAAATAAAGGAATGTTTTAAAATGAGCTAGTTAATAGTTTGAATAAAG
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CTCCTTCCTTTACAGTTTTGATGTGGACAATGGCACATCTGCGGGACGGAGTCCCTTGGATCCCATGACCAGCCCAGGA
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CAGGAGATAGAAAGAGACTAAAAATTCAAGGGGAAAGAGGGTTTAAAGATGGAGCTGTAGTTGCTGACAAAAACATGAT
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CTGCCTTGGCAACATAGTGAGACCTTGTCCTTACTAAAAATCCAAAAAAATAGCTGGGCATGGTGGCACATGCCTTTAG
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Fig. 6.299

TCCCAGCTACTCTGGAGAGGTAGGAGGATTGGTTGAGCCTGGGAGTTCAGGGTTGCAGTGAGCTACGATCATGCCACTG
CAGTCCAGCCTGGGTGACAGAGGAAGACAAGACTGTGTCTGGAAAAAAAGAAAAAAAGAAGAAGGAGGAGAAGGAGAAG
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AATGACAGAATTGAAAGTCATCTAATGCAACTTCATCAAAGGTGAGTCAGGCTTGGTATTGACAAAAGAAAGAGGAAAA
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GATTGTTTCTTTCATACATTCTACTCCAGTTAGTAAATATTAAATATATACATATATTTTATGAAAAGCTTATAGCATT
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CTTTATCTGATCAGACTCAGGTAGGAATGATGAGTTTAATCAGACCATGAGTCAACACTATATTTTGCTGAAAGTAAT
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ATGCTAAGGTCATCTGCTACTAGAATACCTTTTTACTATCTTTTTGTTTAAAAAATTCTGCTTTATTTGGTGCCATTTAT
TCAATCACTTAAGTCATTTTATTTCTGATTTAAAAAAATGGGAGTTTCATGAATTGTAAAATAAGCTCTTATAAATTAGC
TAAACAWGTTTCTTCAATCCTTGAACTGGGGGATTTAAAAATATTAGCTGAATAGGCATTTTATATTCCTAATCTCATAC
TTTCAAAAAAATCATAAAAATGAAATCCTGATGTTTAGACATTTTAAATGGTAATGTTTTTAATGCCACAGTATAAAAA

Fig. 6.300

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TAAAGCATTGATTTTAATGCACTGCTACAGTGAGATGGTGCCAGCACCTCTAAGTATCATTGCCAGTGCTCTAACCTTT
AAAATAACGAATTAATTGAGTTATATGTAGTAATATATCTTGGCTATTACTGCCAAAGTAATAGATATATACTGAAGTC
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TATGCATGATTATTAATTATAGTCACCAGCCTGTACAGTAGATCTCTTGAAATTGTTTCTCCTTCTAACTGAAACTTTG
TACCCTTTCACCAACATCTCCCATTCCACATCCTCCCATTCTCCCCCAGGCCCTGCTCCAGTCCCTGGGAACAACTGTT
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Fig. 6.301

CTACTCTCTGCTTCTATAAGTTTGATTTTGTTTTTAGATTCCACATATGTGTGAGATCACATGGTATTTATCTTTCTTG
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Fig. 6.1302

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Fig. 6.303

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Fig. 6.305

310/375

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TCATGTTATCTGTGTATTGCCTGGAATATTGTCTTGGTGACTAAGGAACCCAGAAATACTGTGGAAACTGCTGCTACTG
TCACCATGTGCATAGACAATGTGGAGGGATTTCTGGAAAATTTCTGCAGTCTGGCCTCTCTGGATTTCGTGTGGATACC
TACAAACTGCACTAAGTGTTGGGAGATTCTTTAGTGGTATATGAAACTAAGTTGCAAGCAATATCAAGTTTTCTCTTAA
CAAACCATTTTCAAGTGTATTTAAAATGGCCTTAGCTCAAGAAGTTTCAAGAATCCTTTCTTGTTGTAGGTCTTGGCCA
GTCTGCGAACTGTACGAAACAACTTTGCTGCATTAACTAATTTGCAAGATCGAGCACCTAGCAAGTAAGATATCCTTTT
TTCCCCCCTCTTTTTTGCTGAACTTTTAAATAAGTTTTCTCAACTTGATTGAGCCCAAGGCAATATGTTAGACTTCTCT
GTGTTGTTGCCATGTTGTCTGTGTATACTAAGTCATATGATGTCCTGTTAATTTTCTATAAATACTTCGTGGTGATGGT
TCTAATATCAGAAATGAAGCAGTATGACAAATAAATATGGTGATTCCATCTGTCAGAAATCACCTGGCATGATCAGTCC
TCCGCCCAGTTATTTACACTCAGGGTAACTTTATAGTTTCGGCTTACTTCATAAATTAACCGTGGGTGAATAATCTCAT
```

Fig. 6.305

CACACCTTAAGATCAGCTGAAAGTCATCCTCTCAAGACAACGATGATTTGGAGAAGCGCCATATCATAGCAAAGATCTT
TGATTCTCCTGCTGTTACTGACTTTCAGATCAGCAGCATTCATGGAGCAATTAATAGAATTGTGGTTTATATGACAACA
GGGAAAGCATTTGAAAGATGGGAAAGGATTATCATTTCAGGTTCTTGATAAAGGCAAAAAAATCTAAAAAGATAAAAGT
AATTTTTCAATATTAAATGGAAAACTGGTTTGCTGTTATTTCAATGTCCATTTTTTTAAAAAAAAATCTGCTATTAATAT
GAAATAAAATATTAAAATGCCAACTTCAAATAATTTTCCAGAAGGAAAAAAAACATTTAAATCATATTAAGAGGATAGT
AAATATAAGTGTATTAGGAACTATAACTTACCTAAGTGCATAACATTTCATAGTAGTTACTACTTCTTAAAAACAATGA
GAAATCTGAACTTTACATTTCATAGTAATAAAATTGACCTCCCAGATTCACGTTTTTCATTATCAAAAATAGCTCTGGC
CGTTATTCAAGTACTTCTTGTGATAGAAAAAGTTTTTAAAAATCAATATAAATGTAACAATGCAAGCTATTGGAATGG
AACCCATTAGGTTCTGTTTTTCCAGGTAATGAATTTTTGCAGTCCTATTCTCTCAGCCTGAATACTTCTCATCTTCTTC
TTCCTCTCCTCATCTACTGGGATAATTGTCATTCATTCTTTTGGTTGCAGCTTAAATAAAATTTCTCTTGGAGCATTGT
CCCTGATGATACCCAACATAGACACACACCCACAAGCCCTAATCAAAGTGATGTGCCTTCCATCTCTGTCTGATTGTA
CCTTGTACTTGATTCCTATGTTAGCACGTAGCTCTCTGTGCTCCTGTTGCCTGTTTGTCTGTTGGGATGCTCCTGAACA
CTGTCAGTTCCCAGTGAGTAGGAATGTAGTCGGTTCACATTTGTATTCCCTGTGCCTAGCATAATGCAGAGTCTATCAG
TCTGCAAAGGCCTGTTCGCTGAAAGGGCAAAGTAGTAACTCAGCATGTAAAATCTGAGGGCATGCTTTGAGGTACCTGT
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TTTGGTAGCTTGTAAGGTCAATCACCTCCCCCTTAGAAAGTCTCAGCTCTGCAGAAGAAATGAAGTTAACTGGTTGTCA
CTCCCAAACTTTTTAGTCTCGAATTTTACCCAGGAAACTGAGATTTTTGTCTTTAAAAAGTGAACAAGAAACTCCCTTT
ATGCTTCCTTTACATGTGGTCACCTGGGTACCAGCATTTAAATCTGTGGCAGGTAAATAGTTGATCAGTCAGGCTCCAG
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CAACCATTTGGTTTTTCCAAAACTGTAGAAGAGTGTGAAAATATTTATTTAATACCATTCCCAGACAAAATCAATGGTTT
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TTCATGCTGCAATTTGAAAATGTTAAAGAAATTCTTTCTTCTCTACATTATCATTTCTATCATTGATCTCACAAATTGT
CTAAGCTGTTATTTGGAACATTTTTACCGATTTACGTTTTTTACTGATGTACATTATTTTTAACCATTTAACTATGTGC
TTATACTCATTTGAGCATTGCTCTGGGCATTTGTATTTTGAGAGATGATGTTACTTTCAAGTCACTTCCCATTCTGGTT
CCACACATGTGTTATTAGCATGATATAATATGTCATCATTTAGTTTAATAAGAGTGAAGGCATAAATAAAAGGAGTAAC
GTGTTGGTTCATCAATATCCCACTTGTGTGTAGGAAGCAACATTGTACCAGTAGTCCAATAAAGGACTGAGAGAGCTGA

Fig. 6.30**5**

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GAATAAACTCAGTTTGGGAGGGGAGAGAAGTTAATATACAATGCAGAAAAAGTTCAATGAGATCAAAACGTTGGGATCT
ATAGATGTTTGGGAAAGAAAAATAGGAGGAAAGATGAGAGGAGCCAAGTGCATAAAAATAAAATTATCTCAATTCCTAT
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CCTGGCCAAGATGGTGAAACCCCGTCTCTATTAAAATACAAAAATTAGCCAGGCGTGGTGGCAGGTGCCTGTAATCCCA
GCTACTCGGGAGGCTGAGACAGGAAATCGCTTGAACTCTGAGGGCGGAGGTTGCAGTGAGCCGAGATCAGGCCACTGCT
CTTCGGCCTGGGTGACAGAGTGAGACACCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAGAAAAATGGATAG
AGTTCCGAATGTGATGAGGAACTCACCAAGTGTTTCTTCCTATAACCCTGTCCCAATGCCTGACATTTTTTTGTTCCTA
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Fig. 6.302'

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AAGCTAATTTAAAAACTGGTAGAATAGAGGTAACAGAGAATATTGGTATGTCAGCTTCTTTGGTACATTTCATTTATGA
TTTTGTTTTCACACAGTCATGGCATGACATTTTTAGTAATCCTTTTATCATTTAGAGTAAGGCTCACCTACATACGTCC
TTAATGTGTGGTGCACACCAGAAGTAAAGAGTGCATTGGAACATGAGAGGGTGGCAAAGAGTCAGAGATGCCCAAGCCA
TACCTGCACTGGGACAGTGATCCCATTTTTGAAGTACAGCCATGTAGCTTGGAGCACAGTCCTTCCTTGTAAGCATTTC
ATTTTCGAACAACCTTAGCTCAAGGCAAGCATTCTGCAGCCATCTCATTAAATGTTACATCTTCACAATACCATTTTCA
ATGCTTCTGAATTTCCATATTTCCAATATGTTTATTTAATCATCCTCAATTAGAGGATTTTCATGCAAGGACACAACTC
TAAAGAAAACGTATTTAAATATCTTTATTTTAAAGATGAAAAAACTGAGACCTAGTGAGAGAGGGTGCTGCTTAGTGAC
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GATTCGGGTGGCCTTTATACCCACCGTGGAAGTATATGCTTTAGAGAAAGTAAATGAAGTATTAATACTAACTCCTGAG
TAATAGATGTGGCATTGTATTATTTGTATATGAGCTTGAAAATTTCTCATCCCAACCTCTCACTGGACATATCTCTGTA
GTTATAGCTATTTTGATTATATCTACTGCTTATACCCCAGAGGCATAGAGACCAGCACCCTAAAGCAAAAGACTTCTGG
ATTTTGACTTTGGAAAATACAAATTCTTCTACAGGGAGCGGTGAAACTAGTACAGCTGCCTGCTCTTTACCTGTAGGGGG
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AAGTAGTATATATAGTTTTTTAAAAAGAAATATAGAGAGATCTAATAGATGGGAGCAAGAACCATATAAAGAAGGCAAA
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AATGTGATCGAAAAATGCTGATGATACATTGTGTTTAATAGCTTTAATAAAAAACTGATAAAGCATCTAATACATCTAA
TGACTGTCGGATTTCCTAAATCTTTTAAGCTGAAGGAGTTTACTTTTACAAAAATCCTCATTGAAAAGAATCTTCCGG
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TGCTTTGTTATAACTTTAATTGAAATAATTAAATGGGGCTCATGTTCATTTAGCCTAGCAAAAAGGTGATGAGCTAGCA
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ACATTGAATCTAGTGACAAACATGTTATTTCTCAGGTCCCAGTTGTTAGTTTGCCTCTCCTTGCCTAGAAAGGGCACTG
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Fig. 6.308

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GTGAGACCCGCCCTAACAATATTTCAATATTATGGTTCCACAGTCCAGCATTAACTGTATTTTAAAATAATAATATCTC
TCACATAGGGCAGCATTTTATGGATTATTGAGCCTATGACAAAAATGTTGTATTATCCTTCAGATGATCAGAAAAACTA
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CTGTCTTTCTGGAAAGTATATATAGTGACACCCACACCCTCATCTAACAAACAGTGCAGCCCAGGATAAGCACGATCAT
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Fig. 6.30q

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```

Fig. 6.310

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Fig. 6.317

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TGGTGCCCAGCTTTAAACACAAGGCAAAGTGAGGGTATGTTCCACTAGGACAGCGTGTGTCACTCTGCTGCCATACACA
GGGAGTACCATCAGTGATTATAAAGAGGAATTTCATTCCTGCCAGAGAGCTCACAAATTAGGTTATTGTTGATGTTCAT

Fig. 6.312

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ATAGTTTTTAGTGACTGGAAAAAGATAATGCCTCCTTCTATGGTCACTACCAGGAAGTGAGCTCCATGCAGCAGACAGA
AACCAACCAGATAACTGTGAGATCCCAGCCAAGCACAATTTCTACATGTTAGTCAATTGCAAGAAACACTGAGATGTAA
TGTAGTACTTTGGACTCATATTACTCAGGTGACTATGTTTTCAAGCAGCCAGTACAGGACAGAAGAGATTCATTTCCTT
GAATCAAAGCTATTTGGTGACTTTTCCTGGAAACACTCTGAGGCTTACAGGAAGGGATTCCAGATTCCCAAGCTACTGG
CACAGAGTAAGCATCTTTTCTTTACATAGTAATTCACAAACGTCCCTCATCACCATATGACAATATCCTCACTGGATCA
GCTCGGTTACCAGAAATAACTAGATCAAAATAAATGTCATTCTCACATGGACACAGGTGGACTAGGGTTTAGAAGTTTT
GGGAACCATCACAGTTCTAGGCACCTGAAACTTCTTCTTTTGCTTGTAGTAAATATGGTGTCTTTCTCAGGACTCTGCC
CTTTGTTTATTTATATATCTGGTCTGGTTTTGTTTTCTAGAGATAGTTCTCTACTCTCCATAGTGTCTGCTTTCTCAT
TGCCTGAGTTTGTACATGGCTTGCCATAGCTTCTCTAGGCCCAATTTTAGGCCATCAGTAGATTTAAAAATTTTTTTT
CTCTTGACACCAATTACCTTAGTTGCAATTTCCCATTTATAATTGCAACTTGAGCCTACAAATTTACAAATACAATGAG
GTAACTTTCCACTGTGGTTAAATATTATAGATTATTGGCTGCTGGTAAACCCATGAATTGCCTGCCTTTGGATTAGATA
TTCAGACCAGGTCCATTTAACAATTCAGACATTTTTTTAAACAATACTTTTTTGAGAGTCTTCCATGTGCCAGGCCCTA
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ACASGGCGAGATATGCACTGTATTAATGAAATAATCTGTACTGAATGTAAAATTCCAAACTGAAGCATTTTATATGAAG
GAAACATTCTMTAAAGGAAAAGTGCGGAAGGCCCCCAGAACGTTCCAGTCTACACATGCTCCTGGAATTTTATGGGAAA
ATAAAAAGTCTGTCAGAATGGATCTTTTGAGAAGATTCCAGAAGTATGTTGGCCAATAAGAGAAAATGAGCAAGTGGAT
GCCAGAAGCCATTTCTTCCATTGTTGTGCTCAGTTTGCAGTGATACTACTGCAGAGCTTGAAAGGCAAGTACTGGCTTC
TCTTCCTCTTGTTCTTCCACCCAGAAAAACCATCCTTATCCTCATATTCCTCCTCCACCTTCACCACCACTACTACCTA
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CAATGTGGTGTGCTGTAATGGCTCTTGGAGAAATGTTAGGGCAAATTAAATTCCAAATAGGATAGCACCTGAAAGAACC
TGGTCCTTTAGTGAAAGAGCGTAGGAAGGAAGGCTTAGAGAGTCTTACTGGCTCCTAAGTGATTAAGAAGAAACATCTA
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GGGAGAGGGGTTGGTTTTGGGATGAAACCACCTCAGATCATCAGGCATTAGATTCTCATAAGGAGTGCACAACCTAGAT
GCCTCGCATGCACAGTTCACAATAGGATTCACAGTCCCACTGATCTGACAGGAGATAAAGCTCAGGTGGTAATGCTCGC
TTGCCTGCTGCTCACTTCCTGCTGTGCCACCAGGTTCCTAACAGGCCATGGACCGGAAGCAGTCTGTGGCTTGGAGGTT
GGGGATCCCTGCTATATGGGCCAGAAATGTGAAAGAGGTGTTCAGTGGGGAGTATACTTCTAACTTGAATACATTCTTT
```

Fig. 6.313

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TCAGCATTTCTACTTATTTTATCAAAAGGTAATTTTTTTTCTCAGGAAATAAAGCAATAGGCAATTGTTTTTTATAGTT
TTTCTGTACAGAGCCTTATTCAATTATACTACCAATGTAATCCTATTGCACTGCTCAACAGAATCAGAATAAGAAGAAC
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AGTAGCTGGGACTACAGGCGTATGTCATCACGCCCAGCTAATTTTTGTATTTTTAGTAGGGACAGGGTTTCACCATGTT
GGCCAGGCTGGTTTCAAACTCCTGAACTCGGGTGATCCACCCACCTCAGCCTCACAAAGTGCTGGGATTACAGGCATGA
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CCGGAATAGTGTTTTTCTTGCTTACTTCAGTCGATTTCTTTATATCTTTAGGAAAGATCTGCACATTCATTCTAGGTGAA
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CTCTATAGGGAGGAAAGGATGAGATGCATTTCAGAAACAAAATATTAACGTAAACAGAAAAAAGAGAAAGCAATCATGA
CAAAGCCTAAGAGGGCTAGTGGAATGCTAGAATGAACTCATTTACCTTCCTTTGATATTTAGGGGCTCTATTGCCTGCT
AATTTCATCACTGTTATTTTTCTTACCTCTTATCTTTTTCCCTGTAGTTATTATCAGCCTAATATTCATTCATTCATTC

Fig. 6.316

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ATTTACCTGAGTTTTCAGGCTTGTGCAGAGACAACAGGGTGGGGCCAGGTTGCAAGATTGTGTTCCCAACTTGGAAGTA
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GGGAATAATTAGAAAACTGTGCAAGATCAGAAGGGAGCCCCTGAAGCTATAACTGCAAGAACCTCCAGACCCTATTGCC
TTTAAATCCCCTTTTAAAAGGCACCAAGTGAGGAAAATTCCAAGATGAATGGGTTACGGGTCTGACCTTCAGGAACATG
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TATAAGTCTCTGTAACACAGCCCATCTGCTTTAGGTGAAGTGAGGCAGTAGGCCTGGAGCCTCACCTGGTTGGCTCTTA
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CTTTGCCTTGAAAACCCATTTAGATTTATGATTTCTAGCCCCCAAAATAACTTTTGTTCCTATATCCAATTCCTTCCCT
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Fig. 6.315

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CACAGTTCTTTCACAATAGCTTCTTTTCTCCTGTAAAACCCTACATAAACTCCAAAAACATTTCTAGTTTTGGAAATCC
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TGGGCATTTCTGGAAGTGCTGGGTTGCAAATAAGTCCAGACCAGAGAGGATTGTGTTTAAAGGCCCAGAATCTCAACTG
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TAAAAATTTCCTAGAGAAAACAGCTTTTGCTACTACTTGCCAAAGTACTCATAAAATGGACTGATTGCTAAGAACAGAA
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CAACAACAACAACAACAACAACAACAAAACTAGTTGCTAAGTTACAAGGGACATTGCCTGTGAGGCTGTGTCGTAA
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CATGGTACCCTTGGCCCTCCCAGAGTCCCTGGGGAATACAGAGCCTTTGTCCATCTCACGTGTAGCTGGATGGTTCCTG
TCAAGTCAGAGGCCATTGCCCACGCTAAGCCCGCAAGGATGGGGAGGTGGAAAACATGAGGCAATTGCAGTGATAACCG
CTGCTTTACTGGGGCTGCTGTGGCATGCCTGGGAAACTGGGAGAGTGGCTTATGCCCAAGGGGTAGGGTGGGCAGAGCT
GACCTGGGGAGGCCACAAACAGGACCTAGTGTACTTTTCTACAGTATACTAGCAGAATTAGAATGAATCAGACAAGAGA
TTTATTAAATTAAGCTTTTGTAATGTCCTGATGTAGTGCACTGTATTTTAATGCTGTGTCTTCTGTTGCTTGAGTTCCT
AATTTGTACCAGGTGTTGTGCCAAATGCTTCAAATAAATTACCTTGTGAAATCCTCACGACTCTATGGACTCCAATTTA
CAAATGAGAAAACTAAGACTTAACTTGCTTATTCTTCACCAAGGCTAGGAAGTGGCAGAGTTAAAATTTGAATCCAGGT
CTAAAGCCATTGGTCTTCTATGCCATAGAATCGGCATCCATTTTGCTACTCTTACTAGAAAATCATGAATCCTAGCTAT
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ACAGACAGAAAAAAATTGAGATTAATTTTTCAATTCTCTAAGTCATAAGAGAATGGAAAAACAGAAATGGACAAGCAGA
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GCAATGGGATGATTGACCTTCCTTTAGCAGAACAGTGTTGACTTGTTACCGTTGTCAAATCAGACTGAACACATTCAAC
AACATGATCATTTCTACTTGTGGGTTTGGACTGACAAGGACATTTCTAGTATATCTTGTTGACATCAGGTTAATAAGCT
CTAAGCAAAGCTGAAAATGAATGCTACTTCCCACAATCAAGTGGAAATGTTAATATTATCAACATGTCTTAAAGGCCAT
GAAGTCCTATGCCTGTATATGTAACAGGAATAGCAAACAGGAACTTTTCTTAAAGGGAAGATTAAACTAGTGTTATTTT

Fig. 6.316

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TATGTATTCGTTAATTGCATGCTCCCCATTTTTAAAACTGTACCTGAAAATATACTGTAATAAAAAATTAAATTTGAAA
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ACCAACTCTTCATTTTTGCCAAACAAAACTATTTTCAACAGAACACACTAACATATACTGGAACCATGATTTCATATTA
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TTAGAAATCTCTCATTAATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTTTTAAATTGGCC
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TTATGATAAAGTCATTCATGAGGACATAGAGTTATTTCATATGCTCTCAAAAATGACTTGCAGTGCGAAACACAGCTAC
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TGCCGTGGGCTTGTCTCTCAAATGGACAATGAGGCTTTCCGAAACCTTTGTGCCTTTAAGTTTAAGGAATTGATTTGGC
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TGAGACCACAATTAGGTTTTGTAGCTATTTGACATCCAATTATAATCAGATACTCAGTGAAACATGCATTCATAATGCA
GGCCAATGATCATATATTTGGCTTAGCTTTTCACTAGAAAAATTCTTTAAAGAAATATTGTCCTTCCAATTTTAGTGGT
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GAGCTAGGAGCACTTACACAAGAGGGTCTTAGCCACTGTGTCGGGGGAATAGCCTTATATCAAAGACTGAAGCCTTTTA
GTAAAACCTGAAGAATAATCAGAAGCAGCCATTGACTAGTCTCTAACCTTGGTTGAGGGACACACACACACACACACACA
CACACACACACACACGGCTCTGAAAGCTCAGACACGGAGGACACGCTGTGATCCACTTAGCCCTCTCTTCTCCTTCA
GGGGGTCCCTTGCAGGACAGAACGCTAAGGAACAAAGTCTTAACTGGCAAGCTGCCGGCAGAAGGAGACTGTCTGGTGG
```

Fig. 6.31?

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ATTGCAGCGCTGATTAGGAACGGGGAGTCCTTTGCGTTTCAGAATCCGGTCCACATTTTGCTGAGAGCCCAGGCACTGT
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TGTTTGTGTGTCTGCCTGAGAAAATGGCAAAGTTGGTTTAGGAAGGGAACACTGCAGGCATGTTGTGATTTCAGCTTTC
ACAGGCAGCTCCAAGAACATCACCTCCAGCTATAATTCAACGGTTACCTGGACTGGAAAATGTCTTGGAGGTTACGAAG
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CTAATTGTTCCACTCTAACTCTCCACCCACCGCCAGGAATATGAAAACAACATAGAGTAGAACTGATGATATCAGCTGT
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AACAAACCACTTCCAGTCTCTGACATGCAAGCCCAGAAGTTTTCAGATTTACAATGGCATACTTTTTTTCTATCTGCTA
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GAAAAAGGAAGTATCAAAGAAGGGTCTGCTGATAGAAAATTAAATAAAGAAGAAGATGCCATGGAAACGTTTTTAGTGC
AAATACACTATTGCTCATGGCTGAAGACAGAAAGAAGACTATGTGTGACTTCCAGATGAAGTTCAGGCATAGAGGCAGG
GCTAAATAAACAAGCACATAGACCCGAGAATTCTCGTTGATTGATCTTTGGAAATTCGGTATAAATATGATCAGTTCAA

Fig. 6.318

CCATGCCTTAGCTACTGGATCAAAGGAGACATCTACCGGCTTTGGGAGATAGGAATCTGGAAAATTGACAGACTGAAAA
AACCAAAACCAAAGAAAAAAAAAAACAAAAAAAACAGAGAATGCAGAATGCCATTTTAAAAACCCTAAGAGGCTGTGTC
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CAAAACCTGTTTCGAAATGAAGGCTTCCCATACATTGAAGTTAAAAGTGGTCTTGAGAAAAGAACTTCTTAATAGGTAA
GGGGTTTTACTTTGGAATGTTGAAAATGTTTGGAACTAGATAGAGGTGGTGGTTGCACAACATTGTAAATGTGCTAAAT
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CATCCCCTCCCCTCCCACCTACACACTCCTCCCAGGCTCTGGTATCTATCGGTCTACCTTCATGAGTTCAAGTTTTTTA
GCCCCTGCATATGTGAGAACATGTGATATTTATCTTTCTGTGCCCAGTTTATTTCACTTAACATAAAGATCTCCAGTTC
CATCCATGTTGCTGTAAATGACGATTTTATTCTTTTTATGGCTGAATCATATTCCATTGTGTATACCATGTTTTCTTT
CTTTCTTCCTTTCTTTCTTGCTTTTTTTTTTTTTTTTTTTTTTTTGAGATAGAGTCTTGCTCTGTCATCCAGGCTGGA
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GCTGGGACTACAGGCGAGTGCCACCATGCCCGGCTAATTTTTGTATTTTAAGAAGAGATGGGGTTTCACCATATTGGCC
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GTGCCTGGCCGTATACCACATTTTCTTTATCCATTCATCTGTTGAGGGACCCTTAGGTTGATTCTCCATCTTTGCTATT
CTGTATAGTGCTGCAATAAACTTGGGGATGTAGGTATCTCTTTGATACACCAATTTCTTTTCCTTTGGATAAATACCCA
GTAGTGAGATTGCCGGACATAGTGGTTAGTTCTATTTTTAGTTTTTTGAGAAATCTCCATGCTGGTTTTCATAGTGGCT
GTACTAATTTACATTCCCACTGGTGATATGTAAGAGTTCCCTTTTCTCTGCATCCTAGCCAGCATCTGTTATTTTTTTT
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GCATTTCCTTGATTATTAGTGATGTTGAGCATTTTTTCATATTGGACATTTGTATGTCTTCTTTTGAGAAATGCCTATT
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CTCTCATGCCTTACTTTACTTTTATATTTTTTCCTCCATTCTTCCTTGTTTCATTCATTCACTCTCCCAAGTCCTCTGG
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CTTGAATTGTGGTGCGTCTGCCATTGGTGTGGAAGCAGGGCAGAAAGAGGACAGAGGCATACCAGCAAGTACAGACATC
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AATTGTAAATAAACTCTCTCCTCTTTGAAATTTATGTTCGATGGTTGCTGTGTAGTTGCAACAGTGTCATAAAGTCCAT
GAGGCCTATTTTTTTTGAGTAATCAATATTGTGGAAAAGTGCTAGAGCAGACCTACCTATATAAATTAATTTGTTTGA
ATTGCTCTATTCACTATGAATAAATATTTATTGGAGTACCTTCTATATGCTGGGGACCTCAGCCATGAGATACGCAGGT

Fig. 6.319

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GGAAAAAATAACACTTAAGCAGCTTATTGTATAGCAGAGAGGTGGTTGAATTGATAGACAATTAAAATACAACGTGTTG
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Fig. 6.31C

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Fig. 6.32[ ]

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TTTTTTTTTTTGAGAAGGAATCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGTGCGATCTCCACTCACTACTGCAACC
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Fig. 6.322

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CAATGTAAGACTATTGAGGTTTAATTTTGATTGTTTTTTCAAAAGTTTGTAATCTGTTAGGAACAATTTCTAAAGTAAA
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TTTTTGGAAAAATCATTAAGTGGATTCCCTTAGCTATATAAACATAAGGCCTGTCATCTTTTTCTTTGGAGAAAGAGTG
TGACAAAATTTCCCCCTTCTTATTAAAAGCTACCCCTCCTCTTGGTACAGTTTGAGGATAGCGTGGACCAAACTACCTA
AGAATTCAGGAGTCTACCAGGAGAAAAGAGACTTTCTCACTTTGTCCCACAATTAGAAGTACTGAGGAAACCCATGAGA
ATGGATGAAAAAGGGCAGTCCCATGGTGTATTGTCGGGAGAGAATGCTGATACGGCGGGCCCTAGAGGGATTAATGTAT
CTGTGTAGAGGAAGGGGAAACCTAAGCTGCCTGCTCAAGAAGAGCATCTTAGATTGTTGAGTGAGGGCTGATCTTTACT
AAATGAGTTAAATCAAAGAGCCGAACTCTTGGAGTCCAAGGCTGGGCATGGAGACCCAAACCAGCAAGGACACAGGTCT
GGACAGGACCATTGTTCACTGTGATACCACATGGCAGTGGCAGAAGCCTTCATACCAATTGCCGTCCTCTCTACACCTG
AAGTTTAGAAGCACGACTCTGCTTTAGACTGAATAATCCCTGAGGTTCTTGGGTTATTTGAAAGAGGGGTAGTTTTCAA
AAAGAGAGATATTAGATTTCCTATTGAAAGGGCAGCCCTGGTCTCCAGTGATTAACTGGAAAAACAAAAGAGATATAAC
AATTTTTACATCTAAGTACTGTGCTAGCTTCTGTGGATCTAGAATCAAATGAGACAAGATGTAGTATGACAAGCAGTTA
GACTCTCAAGAAAATCATTCAAGTCTGTTTAGGAAAACTGACATTCATTCATTCAGCAAACTATTGAGTAGCTCCTGTG
CATCAGAACCTGTATTCACAGTCAACTGAAATAAACACAATTTCTACACGAGTGGAGTTTTCCAAATAGACTAAGATGT
CATAATGGACTGTGTGTAGAGTAATGTTCAAGTTTTTTTTGTTAAGCTTCCCCATCCCCCAGAAAATACTGGATATAT
ATAGCAAAACCTTTCATGGATAATAATTGACATATACCTTGGAGGCCATTTGGAATCTCCATAAACGAAAGAAGAAAGG
GCATTTCAGACAAAGGGAACTACATGTACAAAGTCACAGGCATGTAGAAAAAGATGAATGTTTCGGAGTAACTTACAGT
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TTCTGCTCTTTTACAAACAGTAACTCGTACTGTCACATTTTGCGGCGCATCTCTCATTTTGTTGGTTATTTAGTGGCCA
TGTAAACATGTACATGACTTGTGGTGAATATGGTGATTCTCACTTTATAACCAAAGAGGGTGGATGTTACAGCATATGA
```

Fig. 6.32₅

GCAGTTATGACTGTAAAGCCTGAAGTGTGAGTCACAGGGTCTGACCCAGGTAGTAAGATGTGTTATTTGTTCATGTTGG
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GAATTCTGCACCTAGTTCTTTGGCTAACCAGTTGTGTCCTTTGGGGGAAATTTCTTAATCTTTCTGCTCTCCATTTCCC
TTTCTGTAAGTAAGGGATTAGACCAAATTCCATCCAGGATTGAGAAATTCTATGGTGTGACAAAGACTGCTGGTGCTGA
CTGAATATCCTTACAGATTTGTTCATTTAGTAACCAATATAATAAAGATGACTGACTGAATCTTAATTATATTGGGTGA
CATCTGCCTAGTCAAAAGATTGCATTTCTCAGGCTTTCTAAGAGATTGATGCAGCCAACTACATGTTAGCAGAGGGAGC
TCCTGCCTAGAAGCACTCACTTTTACTCCTCCTCCCGTTTGTGTAGTAGTGATTGGTGCTGGTGCTGGCTGGAGCATC
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GAACCTAGGTCCCTGATAAACATGGTGTCACCATTCCAACCTTGACCTGTTTCTAGATTATTTTCTTTACTTTTCTTTT
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CTTACTGCAGCCTTAGCCTCCTGCACTCAAGCAATTCTCCCACTTCAGCCTCACGAGTAGCTGGAACCACAGGTGCATG
CCACCATACCCAGCAATTTTTTTTTTTTTAATTTTTTGTAGAGATGAGGTCTCACTATGTTACCCAGGCTGGTCTCAAA
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CATTTTCTTAATATGAGATAAAAATAAACCTCTTTCTTATTGAAGCCATTACTAGATGCCTAATTCACTTTCTAACTAA
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ACTAGCTTGGGAACTTCTTAGTGCTATTAGAGTTTCAACACAATTTACCAAATTTCTAAAATTATTTAGTTATTGGATA
TATGAAAACATAATCACCATATGTGAAGAAAAAACCACCAATGTTTAGTACAAAAATTGGGAGGGGGAATATTATATTA
GAGAAAGTTTATTAATCCAGAAAACCACAGAATTTAAAAAATATTGGAAGTTGGGAATTTGGGAGTTAAAGGTACATTT
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CAAACAGGCAAAGGCTAAAAAGGAACACGTTAGTGCTCAAAGTTTGCTTCTTGTGCATGCTGAATGGGAAGAAAAATAA
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GGTAGAAGGGATGAGATTTTTGTGAAATACAGTGAGCAGGGGCTTAGAAAACCTACTGCAGTTCTCTGTGTGACTAAGC
CCAGCACTAGTCTGAAACTTCGTATTGTACTTCTCTGGAATGCAATAACTATCGTCAGGAAGACAAACGTTGCTGTGGC
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GTGAAATAAATACGGAACACTTAAGGGAAATAAAAAGCAATCTATCCTCATCAAGAATGAGCTGAGAATCCCTGAGATA
GCCTATTTAGCAGCTTAGCCTGAATTCTGTTTTAGTTTCTGTTTCTGGAAACTCTTCTTATTTTAAGAAAGAATGATTC
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TCACTCATTCTTAGTTATGTTTCTGATGACTTGAAAAATTGAGTGGCAGTATACAAAGTCTGAGCAAAACTGACTTCAG
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TAGTACTTTTTTTTTCCAGAAACATGAAGTCTGGCAATCTTTATAACTTTGTGCAGCTTGTTGATTCCCGGATTCAAT
GGTGTTAGTGAAAAAGAAGTCTCAGGAGCTCCAGAGTCTCAGAAGAATGACAAGAAGACCCCTAATTCTTGCCTGTCTC
TATATTTAGTATCCAAGTTGGGGGATAAAAGCTAGTTTTTAAGATTTTCTGTTCAGAAATCTTTTCTATATACTATTCAG
AGGCAGCCCTTTGTTTAAACCTTTTTTTTGTCTCAGGCATGGATTAACTGCAATTGGATTCTATGTTAAAAATGTATTTT

Fig. 6.324

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TTTGAACATTTTGTAGGCATCACTCCAGTATTTTCTATTGGTGAAATCCTGATCTTTTTCTGTGTAGAAATTTTTGTGA
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TTGTTTTCTTCCTTTTTTGTCTTTTTGTTTTTTGGTCTTCTAGAAGATTTGTTCACACACATTTTTATTTTCCAACCTT
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GTAGATTTCTTTCTTCAGTTGATGTTTGCTTCTTCTAGTTTCTCTTCTTCATTATGGAGAGTTTCCTTAAGAGGCTGTT
CATTCTTAGTTAAAAGCAAGACATATACAGGTGCATATGCACACACACACAAAACAAAGCAACAATGACAATGATGGCA
AGAAACAATGTCAGAAGTTCTGTGATCATGGATAGGGCTCGTCAACTGTAGGGTTGCACTGTTGCATCATAGGTTGTTC
AATCAAAGCCGGTGTGTTCTTTGAAATGTTTCCCCAAGGTCATGATTAGGGGGTACCCCACTTTCTGCCTGCGAGATTT
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TTTCTTTTTTTTCAAATGACAGGGCTCTATAATGGGATCATTGCATTTCTCTGATTACTAATGAGAGTGAGTACTCCTT
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CCTACCCTACAACTTTTGGCATCTCTACCCAACATTTTTATAATACAGGACTGTCTCTGAGGTTTGTTTTCCTTATGGT
TGTTCTCATGTATAAAAGAGATGATGATAGCGTTTCTCATGCCAGTATGTCTGTGTATGATTTATGTTGTAAACAGTGC
AAAGAGCTTTACAGCCATTGTCTCACTAATCTTCAGAGCATCTTTTCGAAATAGAGAGGAGACAAGTGAATCAACATCC
TCTATATCACGGGAGGAAACATATCTCCCTGTGGAGAGATGTCCACTGCTTTATCGACAAGGCACAAAGCTGCGAACAG
AATTCAGGTTGTATTCTGACTCCTACACTAATGCCTATGGACTAGACATGGTGTAAAATTTTATATGCGTGAAACATGA
GGTGTATTCATCAACTGATCACTATTAGCMACTGGCTAGAACATGAAGTGTTTGTTTGTTTTTCAAAAGAAAGATATGA
TGAAACTTTATATGCTTTTACACAGTTCTGATATTTTAACAATTTGACTAATTTTTATAGTTTTATTCCTTCCAGAAAT
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ATACCCAGACTTCATACCTTCTTGCTTCCCACTCTCCTCATATCTAATCTCTCCCTTAGGTTTAGCAACAAAATGTGCA
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Fig. 6.325

331/375

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GCTTGACRTGGTCAGTGGGTGTCTGAACATTTAGTGCTAGTGTTTCCTCTCATCTCTCTGCTTTTATTTGGACTTCTCA
ACTCTTAAAAGTAATTTTAACATATTATAAGAAATCTTTGAATTTATAACACTTTACAGTTTATGAAAGACTATATAAA
GGTTCCTTCTCACAGGCTGTAAGGGGTACAAGGACAATGAAACTCAGATGACATCCTTAAATGCACTCTACTATTĀTAT
GGCTAATTTAAGATTAAAAATCTGGTTTCATAATTATTAGTCTAGTGGTCCTTTTATAGGCAGCATAATACAGTTGTAA
GGAGTACAGACTGCCTGTTTTTGAATCACTGGTCCATGCTAACTAGCTGGCTTACCCTTGGGCAAGTTACTTGAGGTTC
TCTGTGCCTCAGTTTCCCCAGCTATCAAATAGATCTAAGAGTTGTGAAAATTCAATGAGTTGATACATATAAAAATACT
TAAAGCAGTGCCTGTCCAACATAAATGCTTAATAAATGTTAGCCCTATTATCTTTCCTCATTATTTAGTGTTAAAGAGC
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AAAATTGATACCAATTAGTTTCCTTATCTTGAATGAAATCAGTATTGTAGTCAGAGCCAAGCTACTGACCTGGATTCAC
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-AAAATGTATAAATTGCCTCATTTGTTTGAAGTGTAACACTCAGGTTTTCCATACAGCAGGAAACTCTGATAGAAGTATA
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CAACTGAGGGTGTTAAACAGAAAGGACAATGACATTACAACAAGCTGTGGGTTCACACATACCATTTCAAGACTAGAGA
AGAGAAGAAAATCAGAGATTCTTCCAGAAATGAAAATTCTTGAGCTGGGGCTTTGAGGATGAGGAGAAGTTAGTTAGTT
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CAGGTTACAGATTGTGGCACTATAGGTGATGGGGAAGGAGTGAGAGAGGTAACTACAGAGAAGTAACCTATTAGGAACT
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·AATTTTTTTCCTTTGTGGTCTTATTTATTTATTGAGATAGGGTCTTGCTCTGTCACCCAGGCTGGAGAGCAGTGGCAAT
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CTCCTGTGTAAAGTGGAGGCAGTGATAGTACATTGTTAATAGATTGTTTACTTTTTACTCTTCTGTATAGACGGACCCC
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CATATCTATTACAAAATAATAATAAGCAAGGGGGAGAAAACGAACTGTCAATAATTATGCCATTGAGAGATAATTTTTC
TGTCTCTGTGTGTGAGAGTGTGTATGTAGAGAGAGAAGGAGTTTTACTAACAACAATGAGATTATACTĠAAGGTAATAT
TTTATAATCTGCTTTTAAAAATTTCACAGTATATTGCATCATGAACACTTTTCTTACCATTAAATACAATTCTCTATATA
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Fig. 6.326

ACATTTTAATGGCATTTCCTTACATGAATATACTACACTTAAGCAATTTTCTATTATTAAATATTTGAAGCTCTCCCCA
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TGCCCTGCAGAAAGTTTATATATACTTCATCAGCAGTCTCTATTTCTACATTATTTCCGTTGCTATATTTTATCATTTT
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TCAAGTGATCTGACTGCCTCTGCCTCTCGAAGTGCTGGGATTACAGGTGTGAGCCACCACCCCTGGCCTCTTATTGATT
TTAGAGTGTTCTTTAGAGATTAAGAATATTAACTTTTCATTTATGTTTGTTTTTACACTTTTTTGCCATTTATTCATT
TCTATTTTTACTTTTACAGATACTCTATTTAATAAATAGAAGTTTAAATAGTCCCTATGTAGCCTGTATGTTTATATT
·GTTTATATAGTCTCTATATAAATATATTTTATAAATCCTTAGCAATTCTTTTCCAACACCAATATTTTCTTCTAGTATT
TAATCATTTTACATCATATATTTATATCTCTAATAATTATGGAATTTATTTTACTTTATTTCAGGGCTCTGATGTTCTT
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ACTGTTTATGGTTAGTTCCTTTTTTAATCTTTACATCCTATTTCTAGACAAAAAGCCCCATGTTATAATTATTATGGAT
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CATCGTTGTGCTAAATTATACAAACAATCTACTTGTCAAGTCCCCCCCAAAAAAACCCATTAAGATTTTGATTGAAATT
GCATTAAGTTGCTTATAAGCAGTTTAAGTACTACAGAGCTCCTTATGATATCCCTGCCAACTACTTAAGAAACTCCT
AGTTCTTAAATTACAAATATTCCCAGTCAAGAAAGGATCACCAGACATTTGAAAAAAGACAAAAAACCAAACCAAACAA
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TGCAATTCAAGTAATATTCATTCTTGAATATTGAATTAAGCAAATATCTTAGAATATAGAGCAAAAAGCCAAGGATATA
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Fig. 6.327

TTCTGGAGAACAGAGACAAGTCCCACACTGTTAAAGGAGTGAAGTCATTTTGCAGCCAGTTTTAAGGATTGATTTAAGA
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TCTCCCCTCCTCTCCCCTCCTTTCCTTTCCTTTCCTTGACACTGGGTAGAGTGTAATGCAATCATAGCTTACTGCAGCC
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GCTTATTATTATTATTATTATTATTAATTTTGTAGAGATGGGTCCTGCTATGTTGCCCAGGCTGGTCTCAAACTCC
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GATTTTTCTCTTAATGTCTAGTTTTATTACATAGGTAATAGATAAATATATTCATGTCATAAATATTTTTAAAATTCA
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TCTTTGTAAATATCAGTGTAAAGTACACACTGTATAAAATGTAAATTACTGATGTGAGAGTGGCCATTTTATTCACATT
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TCCTTCTGGTTTATTCAAAGAATTCTCATCAGGTTGATCAAGAGTTGAAAAGTAAAGCACTGTTCTTAAAAAACTGCTCT
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Fig. 6.328

TAATGTAAATCTTAGAAAATGGTGAGAATTTCTTGTATGCTTTATATTTATAAGAAGTAATAATAGCTTTTGAAATAAT
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TCGTTTTGAAACCTAGAAAAGAATGAAGTGATGCCTTTTAAATTCCGAAGGAAAGTGATTCTCAACCAAGAATTCTATA
CTCAACCAAACTATTGATCAAGAGTGAGCATGGAATAAAGATTATTTCTGAGGTGCGAGCCTTTAAAAAAATGTATCTCT

Fig. 6.329

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GATGCATACTGACTCAGGAAGCTACTGGAAAACGTGCTCACCAAAACAAGGGAATAAACTCTAAAAACATTACCCTTGG
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AGTCTTAGATGGTTTTTTCATAAATTTTGAGTCATGAAAAACTGACAACATATGAGTCTCCAAGTACCTTTTAATATATG
CAATATTTTACCTACTTAATKAATACATGTGTTTATTTGATAACTAAAAAGTTTATAAAGTCTAGAAATAAAGAAAAGT
CCATGTCCTTTTTCTTTTTTGTTTTCTTTTAAATGAAAACTCATGAGAAATAAGAGGGCAGAATGCATTAAATTATTTC
TTCTGTAACAGCACAATTCTATATCAGATTTTAAATACAAAAGAACATGCAAAGGGATAACAGCATTGACTTCAGTTCT
AATATAAATAAGGCAGGAAATTGGGTGAAATCAGTTTTTCCTCTAATCTTACATGGAAAAAAATTTGTCATTTGGCAAA
CCCATATGAATCCGATCTGTTTGGTTTATTCATCCATGCAGTGACATTCAGACTCCAAAAACTGTATCAGAAACCTAGT
CAATATTTAAATGCCATCATATAGATTAGAAATGGAATAAGGTATAGGTAACTTACTGCATTTCAAAAAAAGTACTAAT
TGAAACATATTGTCAAACATATATCTTTTTCTCTCTTTAGAAACCTATGGCTATTTTCTGTCTTTCAGCKCACGCTACA
GAAAGGCCTATTTTTCCTTCTGTCTTAGTCCATTCAAGCTGCTGTAACAAAATATCATAGCCAGGCACAGTGGCTCATG
CCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCAGATCACTTGAAGTCAGGAGTTTCAGACCAGCCTGGGCAACAT
GATGAAACCTAATCTCTACTAAAAATACAAAAAAATCAGCCAAATGTGGTCACAAGCACCTGTAATCCCAGCAACTCAG
GAGGCTAAGGCACTAGAATCACTTGCACCTGGGAAGGAGAGGGTGCAGTGATCTGAGATCATGGCACTGAAATCCAGCC
CGAGTGACAGAGCAAAACTCTCTCTCTAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATCACG
AGCTGGGTGGCTTATAAACAACATAAATTTATTTCTCACAGTTCTGGAGACTAGAATGTCCAAGGTCAAGGCACGGTAG
ACTTGGTATTTTGTGAGGGCTCATTTCCTGGGTCATAGATACGTGCCTCTGGCTTTGTCCTCACATGGTGGAAGGGGCA
AGGCAGCTCTCTTGGGCCTCCTTTATAAGCCACTAATCCCCTTATAAGGGCTGTGCTCTCATGACCTAATTATCTCCCA
AAGGCCCCACCTCCTAATACCATCACATTGGTGATGAGGTTTCATCGCATATGAATGTGGGGAGGGACACAAACATTCA
GACTATAGTATCTGCTTTTTGCCACAGAATGAAGAATAAACCACGTCTTATAAATAAAAATCTTTCCATGGTCCCCCAC
CACATAAGGACATGACCAACTTCCTTTGCTAGTCATCCATCTCTCATAATCCTCTCCAGCCCATCTCTGCAGCCTCATC
TCCACCCACACATGCATTCTGCTGTAACAAATGGTGGGCAGGCTTCCAAATGTACTGTGTTCCCATGAAGTTGCACCTT
TGCTGATGTTATTCTCTTTGCCTGGGTCCCCTCCCCATCTATTCACTCCTTTCTGCACTTCACCCTTGCTCTTCTTGTG
CCCTAATAGCTCCTCCTTTTGTGACACATCAAAAATTGCCCACTGTAGGAAGCCCCTCCAAGACTAAGAGTGCCTCTCT
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Fig. 6.330

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CTGTGTTCCTGCATGTGCTTTTGGAGCCCTTATCACACAGTTGCTCTAGAATTGTTAGCTTGACCACACTGTGAGTTTT
CTTAAGGGCAGGGACTTATTCCTCTTTGCATATCTGGAATCTTACCCAGTGTTTAGTACATACTACATGTTCAATAAAT
ATTTGTTCAATGAATCAATGAATTGATAGGTTTTCTTTTAGTAGAAGGAATAAGGTACATTTTTTTTAGAACAGCATCC
GAAAAGCAAGCAGGAAAAATTGGGACATCTTTGCTTAAGGTAAAAATGCTTTTATGGGGACCACCTTTGAAACTCCATC
TACTTGGATCCTTTTAGTCTTCTTTATGAGATAGGAATATTAATTCTTAGATCCAATTAAAGAAGGTCTAGTTACCAAG
GAACAAAACAAATTGGTATAGAATGGACTTTCTTATAAGAGAGTCCCAAATCATAGATCATAAGGACAATCTTATGTTG
AAATGTCTCAATAACTTCCAAATGCCGATGTGAATGATATCATCAAACAGTGTGAGTCAAAGGAAGAAATGGGATTCCT
AAGTTTTCATTGTACTCCTTGACTATTTTATTGGTGTACAGTCTCTTGACAATTATTTTCTCATCTTCTTTCCCAAGGA
AACTTTAGATTTAATATGTTTATTCTGCAAGATGTTTGGAGACAGGTATACACCCTAAAACCACCATTACAATCAATGC
CATAAACTTATTCATTGCCTCCAAAAGTTTCCTCCCATCTTTTTGGGTTTTTTTGTTTTGTTTTCCTTTCATGGTAAGG
ACACTTAATATAACAGCTACCCTTTTACCAAATTTCTAAGTATACAATATAGTATTGTTGATTGTATACTTATGTTATA
CAGCAGCTTTCCAGAACTTATTTTGCAAGACTAAAACTTTGTAACCCTTGACCACATCTACCAATTCCCATCTTCCCCC
AGCCTCTGGCAACTACCATTCTACTTTCTGCTTCCATCAGTTTGACTATTTTGGATTATACATGTAAGTGAGATCATGC
AGTATTTGTCCTTCTGTGTCTGGTTTATTCCACTTAGCATGATGTCCTCCAGTTCCATCCAACTTGTTGTAAATGACAG
GATTTCCTTCCTTTTTAGGGCTGAATAATATTTCATTGTATATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTGTGTGTGTGTATATATATATCACATTTCCTTTGTCCATTCATCTGTTGATGGACATTTAGGTTGCCTC
TGTATCTTAGCTATTACAAATATGCTGCAGTGAAAATATCTCTTTAAGATCCAGATTTCAGTTCTTTTGGATATATACC
AAGAAGTGGGACTGCTGGATCAAGTTACTTCCTGTTTCGAAAGTAGGGCACCCTCTGGACATTTCTACAACTGAAGTGA
TTGATTCTTACTTTTGGAAGTCAGGCTATTTGTTGGAATGGTGGGGAAAAAAGCTAGAGCTTAAAAATAAATCTAAAGT
TGGAGAGGGGATTATTACTGATGGATGCATTAATTCAAGGGTTACTGATACTCTAAATACATTTTTAAAAGTTGTTTGA
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GTGTGCAGAATATTGAAAATTCACCACTAGTAGATTTATGGCATATTTCTGGGTATTTCATTCCCATTTGGTTTATTAT
GATAAATCACTGGGAAACGGGTAGCCTGTAGGACATGACAGCAAACCACACTTTGGCAGGACCAGCATCAGGGCTGCGT
GCTTTTTTAGGAGGCTATGTAGTCTAGCTAGCACAGAGTGACCCAGTGAGAGCTTGGTTGGCTAGGACTTTCTGGTGGT
AGCCCACAGAGCTCACCTGAAAGAGTACCAAGGATGAAAATATCATCTTGGCTAATTGGTCTGCTAGTTGATTTAAAAA
ATAAACAATAAAAAAAATTTCCAGTGTATTTTAGCAAAGTTTAATATTTTGAAGGGGGCAGAAATGTAGCATATTTTGG
GATCTTAAATCTGAATTTGTGTCTTTTTCCAGACTTTGTCAGTGTCTTTGTCTCTCTCTCCCTCTGCCCCCTCCATGTC
TCCCTCCTTCCCTCCCTCCTTCTCTCTTTCCTTTCCTGGTAAGTATACTAGAAAAAAGTATATTTTTTTCTCATTTTTT
TTAACTTAATAACAACAGCAACAATGACAACAGTCAAACTCTTGAATTCTGGTCACAATCCAGATCAATAATTTTTTCC
TTGTAGTTACCTTGGAATTAGGTTCTTAGCCCCTCACTGCTCTCTGTATATTTCTGTACAATATTCATCAGTTTAAATA
AGTACTTCAATTTCATACCAAAGTGCCAAGACTATCCTATTTTCACTCATCTTTAACTTTCTTCTTTTTCATTTCCCAC
ACCCCTGCCATTGCCAAACAAAACTGATTATCTCTGTTTTTATCTTTCTTTTAGACTTTTTAAGGCAATAAAAAATTGG
CTTGCTCAGAAGGCTGATACACTGAGTGTTAGAATAACCCAAAGGTTAGAATGCTTTGGTCAACTTATGGGTATTTTTG
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TTACTAGCATGATTACTGATTAACACTTAGACTGTTGGCTTGAAGTTTAGTAGCCTGAAGGAAAATTTCCAGAGGCATT
ATAATAAGGAAGTTTAATTAAGAGTTAATGTTGACTCAGGAATATTATGTATAGCATTGATCCACAGTGTTGCTAATGA
ATTCATTATGCTGCAAATGCAAGTGATTTGTTAGTACATTGGCCAATAAAAGTGAAATCTGTCTCAACAAGAATGTTGA
AAGAAGAAGGCAGTGAAACTTTCATCTCCACTGGGAGTGAACTAACTTGCCAAATCTGGGTCATCAATCATAGTAAAA
TGTTCAAAACAAATAATGCATCTTTCATGGTTCACTGTATTCATCAGCACTTTTGAAGTCACCAGTCTAGAGTAGTCGC
CTTTGGCCAAGTTTTCAGTAGCCTGTGGTTTAGGCAATAAGCCTCAACTGTCTTTCTCGAGGATATGTTCCCAGGTGGT
TGTACTCCATGGGCCATTTTCAATCAAATCTGAAAGGACAAAAGGGCAGTTCTGTTTATATGAAATGACATCATATTAT
AACCTCAAAATTGTTGTCTTAAAAGTCAAATCATTATCTAAAAGGTCTCTTAGAATTACTTAGAGCTTGAATGCAAAAG
ACTGAATTTCCCACTCACGTACTTCGCCAACACTCATTACATAGGCAAAAAAGTATAGTAAGTGTCACTTATGTGAGCC
TATGTATGTATGTAGTGTTATAGGGGGTGGGGGTGGCAGGAAAGACAGCTCAAATATGAAATAATTGAATTATTCATTG
CCACTGTTCTGATTGCCTTTAAAAAAAGTTTTATCTGGAAGTTATTTCAGACACACTGGAAAGCTTCATGGGTAGTGCA
AAAAAAAAAAAAAAACCACATGCATTCACTCATTGTAAACATTCCACCTCATTTGCAGTATCACTCTATGTGCACATAC
ACACAAATATACATACACACATTGTCTTTTTTTCTCTGAACCACCTGAGAGAAACTGCACACATCATAGCCCTCTA
TCCCTAAACTCCTCGATGTATTCCTCCCAAGAACAAGGACACTTTTCTGTATAACTATAGTCTCAAACATCTGATTGCC
TTTGAATTTTATAGCATGACTTATTTATACCTTTTTACTTCGAGTTCTAACTCAGATACTGAGCTATAGAGGAACAGCT
CAACTATTAGTTGAGGGATAGCTCAGATGTCTGATGGAAAAAAGTCACATCAGTAACATTTTGAATTCTGCAAATATAC
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TTAATTAATAGATCTTATATGTTTGGTTATATGTCTTATCCATGCTATTATAGCTAGCTAGCATTCATTAGGACAGCCA
GAGAATCTTGTCTTTCTGTATTTTTATACTGTTTTTCTTCTTCTGATCAGCCGATTCCAGGTTTTGAAAGAATGAAGTA
GTTCCTACTTAGATAATGCTATTGCCTTGCTCCTTAACAGTAAGCAGTGGAGAAGCAGAGTGGACGCTGGTGATGCTGC
CTTTAGTCCTGGAGGGAGTGTCAACCAGTGGGTAATCATTCTGACCCTGCAACACAACCATCCCTTCACTATTTCAGTG
AAGGTCTCTACTTCGGTGGTAGGTCTCTACTCAACATGGTACTTATAGCCGTTTTATACTTGCTATCTTAAAAAAAATAT
GCAGGCTTTCACTGCTGTGAACAGATAATTGATATTTATGTTTCATAATCTGTGAAGATAGCTAACACATTTCTGACAG
TTGCAATTTTTTTTCCCAAAACGAGTTTGAGCATGCCTATCCCTCTCTACCCAAGTATATTTAACAGCATTTCTATCTA
TTGGGGAATCTGAGTGAGGATGACAACGTGTCAGGGATTAGAATGGACAGGAAGAGTCTCTGTAAGAGGAGGGTGTGAT
GCTGGAGCAATTTATGAAAATTGGGTCCCCTGGTAACTGTAGTGSATGTTATACAGACAGTCCTGCAGAGTCATCCACG
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Fig. 6. 33

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AGGCTGACTCACTGACAATGTACACATAGAGGTGGGCCTCGAGTGTGTGCAAATAACAAGTTTACTACTGCAGGCAAAC
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CATGGTCCGTAACCTCATAGAGCTTACACATAAACTGTTTTGCTTTAAAATATTGTACATTCAGAGGTGTTTGTGCTCC
GACCATATGACTGCAATATGTCATTTGATAAACCTTTCAGGCATGACTTGGACCCACCCAGAACTTAGCTTTAAAGCTA
TCAGATTGACAGGAGGAGAGAACACTGGCTTTAGATGACAAATCATGGAAATAATTATGAAAAGACCATCCAGTTTTTA
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TTTGTTTGGCAGACTTTCTAAAAAGCATTGTCAGATAGTTTTGGAGCAAGCAGTTTAGCCATCTACTACCACACAATAT
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AGACTAAGCTGTAGGGGTACTATGCTTATTACCTCGGTGTGAAATAATCTGTACACCAGCACCCCATGACATGCAATTT
ACCTATATGACTAACCTGCACATATACCCCTGAACGTAAAATTTAAAAAATTTTTATAGATATGTTAAATTTGAGATGT
TTATTGAACATCAAAGCAAAAATGGTGAATGAACAGATATATGACACAAAAAAGACTAAGGTATAATCCTATATCATGA
GTGAATAGGAATTTTTTGTTATTGGTGTTTGCGTTAGTTGAGATTTTATTCAGCAGTAAATAGAGAGATTTAAAATAGA
AGTGGCTTAAGGAAGACAGATATTTCTCCTTCATGTAAAATCTGAAAGTTGGCAGTCCGAGGTTAATATGGCACCTCTA
TCCAGTACAGTCTTCAAGGACACGTGCTCTTTCCATCTTATTGCACTGTGAGGTGTAGCCTCTGTTGCTAAATTCAACT
CACCATCCAATATGGCTGCTCCGACTCCAGCCATCAACTTCACATTCTAGCCAGTAGGAAAGAGAAAACAATAAATACA
GGCAGATAAAAAGATAGATGACAAATTTCTCTTAAGGGAAGTTTCTAGCACATCATATAATATCTACATAACGCTTCTA
CTACCAACTCATTCACCAAAACTTAGTTATATGGCAACACCTGGCAACCAAGGAGGCTGTGAATTTTCTCTATTTTGGG
CAGTCACATGCTTACATGAAAACAGGTATTTGAAAACAAGTGATGAAGAAAGCATCAATATTAGGGGACATTTAGCAG
TCTCTGCCACAATGTTGCCTATTAATAATCCTGCATACATTTTAAATATTTAATATCAGTCTGCAACACTCTATTTGCA
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TTCCAGCGTTAAAGATTGCATCTCCACCTGCAATTTGGGAAAGGAAAAACTGATAGCACAAAATAAAAGTAGTGGGTGT
CCTGAAAACTGTCTGATGCTCTTCATGTTCTTACCAACTCATATCCTCATCTAAATTTGAATCACAGGTACATTCTGAC
CTTGTCGTAGAGAGAGTCCTAAAGTCTCACGAGAGAATTACCGTGCTTGTTCTAACAAGACTGTGTTCCAGCAGGCATG
CCAAAATTTGATAGCTACAAATAGGGAGATTTGAAAGGAAAGAGGTGGGAGAGGTAATTTCTTTTAACTCAACTGCATC
TGGTGGATTAAGGTAGACAATATTACCATTTTGCTGACAGAAGGCAGACATGGCACTAAAGAGGGAGAATGAGCAACCA
CAGAGCTGATTTAATTTCCAGTGGGGTTTATGGAAGCACCAAAACATGATGTAGCCAAATGTTCCTAAAAGTATGAAGT
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GCCATTGTTATTGACTAAATGAAGTGAGATTTCTGATTACCTTGTCCAGCACATTTTAATTTCTGTCTGTCCATTTATT
CCAAATCACATTACAGGGCCTTAACTGATCTTGACAAAATAAGCTACATTATTAAGGTGCAGTTTAACCTGAGAAGCTT
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TTGTTTCTGATGTGCAAAAGAGACCCAAGTTTAAAAGGAAGACTTAAACTTACGGAAGTGATTTTTTTTTTTTCTTCCAC
CAAGAGTCTCTTTGTAGACAGGTGTCTGTTCTGTTGGGAGTGGACTTACACCTCCTGAATGCTGTGATTGAGAGAGCTG
CCTCCATAGTGGAAAGCCCCCGGTAGAGGGTAGTACCCAGATTTCCAAGGGGAGGGGAGTTGGGGGACTAAACGATGTA
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TATTCATAATTACACTGGTATAACAGGCATAGACCTTGGAAGTTCCAGGCCAATTAGGATGTATGGACTCTGTACCTAT
AAGGAAGACAAGGCAATAGATATGTAAACAAATCAATGTGATAGTCATTATAGGCATCTGGAGAATGAAAGGCTCTATA
GGACACTGTGGGTGGGTGGGCATGGAGAACAGTCACTCTCTTAGGGATTTCTCTCCCCTGGAACAAAAGTTACACTAAT
CATGTGACATCTCAGAGCATGAAGTTTGTAGCTCCCTCAACCATATTCATATTCCTCTAACAGTCCAGTTAATGATTCT
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TCAACAAACATTTATTGGATACCTAGTATATGACAGCCAGTGTTTAGCACCAGAGATCAAAAAATGAATTCATTATGGT
TCCAGCCCCAGAGAAATTCAGTCTAGTAATAAACACATAATTGTGATAGACTGTTTAGTGATTTAATAACTTAAAGAGT
TAACTTCTGATTTGGTTCTCATGCATCAAACATAATATTTGCCAGTCTCTATCTCTACAAGGAGCCCTGGATTTTTCCC
AGTCCCTACTAATGCTAGATAATATGGCAAAATACACAGGCTGATCAGGCTGTTTAGAGACTCTTTTAAGCAGAGAT
CTTTTGTTTTCCAGACTGCTAATTTATTTTTTTCTACCCAGAAAGCCCTTCCTACCATCTGAGCTATTCTGACCAAATC
AGCGAAGACAAGCTACAGAGATTTAGGATGTCTGGGCTAAAAAGGTTTGCTTGTTTAATTAGATAAATAATTTGAGAAT
GCTTTCCAGGATTACTGTTCCTAACCACATTGATAAATGCTGGGAAGACTATCTCAGTTATCCAGCATTGGATAACAGA
CTGTTGGAGAAGAGTGAAGCTTCAGTGTGAGCTGGGAAAGATCCCAAAAATCCTAACATGCTCTAGGTGCCTGCATATA
AAATTCATCATCATAGTGACTTTAGGACCACTTGCTATTTTTCAGGCACTGCTTTACATACATAGTCCTATTTAAATAA
TTTTCAGAATCATACTGTGATATAGGTACTGCTTTCTCCATTTTATAAATTAGAAAACAAGCTAGGTTAATTCACTTTT
ATAAGGTGCCAAGCTAGTCAATCAGTGGCAAAGCTCAGATTTGGAAACAAGGACTGCCTTACTCCAAAAACTGTTCTCT
TAAATTTCAGTGTTTGTAAGGTCCCTCACTGCCCCAGCATAACCCAGCATTTGGTCCATTCAAGGATTAAGAGGAACAG
GGATCTGCCAGCCTTGTTTCTGCAGAAAAAAATGGGGGAGGCAGAGCTGGATCTAACCAAACAGGTTAAATTTAAGTGC
CAGGTTTCCGTGAAGGAGAATTATGCCAGCAATGGTTTCTCACCTTAATGAATTCATTTCTAACCATTCTTTGCCCTGC
AAAGACAGCAGGATCCTGGGTCCACAGGGCCCAGTTCATGGAGAGGAGAAAGAGGCACATAATGGGAGCAAAAAGTGAA
GAATTCAAGCTGCAAAATGTAACGGAATTCTCAAAGTGCTGGGTTCTCTTCACTCCCTTATCTGGCAGCTCCTGTTTTT
TCTCCTTTGCCTCCCACAGTTGCCACTTTAAAAAGTCATTTTTAATGTGGCACATATACACCATGGAGTACTATGCAGC
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Fig. 6.332

338/375

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CATAAAAAAGAATGAGTTTATGTCCTTTGCAGGGACGTGAATGAAGCTGGAAGCCATCATTCTCAGCAAACTAACACAG
GAACAGAAAACGAAACACTGCATGTTCTCACTCATAAGTGGGAGTTGAACAATGAGAACACATGGACACAGGGAGGGGA
ACATCACACACTGGGGCCTGGTGGGGGTTGGGGGAGCAAGGGGAGGAAGAACATTAGTACAAATACCGAATGCATGCGG
GTCTTAAAACCTAGTTTGGGCTGATGGGTGCAGTAAACCACCATAGCACATGTATACCTATGTAATAAACCTGCACGTT
CTGCACATGTATCCCAGAACTTAAAGTAAAAAAAAAACACAAGAAAACAAACAAACAAAAAAACTCCTTTTTAAACATTG
TCTCAGCGTCCAGTCGGTTGAGTTTCTGCACTTTTAGACACTCAAGCCCCTTCTTTCGTCCTTTGCTCCAGTGGTTGTA
GCTTCCTACCTCCTTCTTACCCTCACCCCTAGGCTTCCACTTTAGAGAATTTGGAGAACTGGGGAAAGAAAAGACTGTT
TTGTGCATGGTGTGCCTGCAGCCTAGTGCCATGAGCTGGTTCTTGCCGTGTCTGAGCCACCAGATCCACTCCTTCTGTG
GTTCACACGCTATTCCCTCTATCCCAGCCAAGCTTGCAAACTCTGATCATGAACTACCAGGTGGAGGSGGGGCATGGAT
ATCCTCCCCAGGAAGCCTGTCTGGAACCTCTGAACTTTTCTGACCTGTGCATGCCTCTACCACAGCACACCTTAATTTC
TTTTGAAATCACTGCATTTGTTCATTTGTTAGTTGTTTGCTTCTAGATGGTAGACGCCTTGAGGCCAGAATTCTTCTGA
ACTAAGCTTTGGAAGTTGAGCACCTCATAGAATACCAAGCTTCTCGTATTACTGGTGGGGTTCAACAAGTATTTGTTGA
GAAGTGATGAATCAAGCTAAAGTTTAAGTAGGCAAAGATGAATCACGTCATAACCTCTGGTTTCCYAACTTTGTCTATA
GAAAAGGCTCCTTGCTAGGTAAAACAAAAACAGAAGAAGTATGTGGATTCTCTTCAACTTTGGGACTCATCACCCTGAA
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AAATTGAATAGAAGGAGGGAAAGAGGGAAAAAGGTCTAGATGATCAAGTGGCAAAAACAAATAACCCAGCATGAACAAG
TATGCAGAGAGGGAACTCTGAGGAAACTTGCTGACAAAAGATAGAGATGGAGGTGAGGTCAACCACAGGGGAATAATGG
GGGCAGACAAGTCTAAGGAGGTAGATTTTATAGGGACTTCGAATAGATGAACTGAAGTTTGGGGAAGACCTAAAGGCAT
TAAAAATCCAGTATAAGTTCTTGATTAAGGACAGATATCATAATAATTATTATTATAATACAAGGGGTGCTTTGGGAAC
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TCCTGTTCATTTGCCAATGAAATGCCTAGGATATATGGTGGTCTGCTCCTACCCTCCACAGTTCTAGCCACTGCAACCA
GGATGCCCAGCAACCATGTCATTCATTCATTCATATGGTCTATCTGTCTCCTATAGGCATTTCAGTGAGTGGCCGCTGC
TTTATGTGTTCTGTTGGTAAACTTGTAGTACCCTGAGAAAACTCACACATTATGGAGAAATTACTTCAAAAAAATATGCA
CAGTAGTTAACTGAAATCTTTTTATGTGTTCTACTCTCACGTGAAGTAGAGAAGTAGAGGGGAGAGTTTTTTAATTATAA
AAAGGGAGGAAGAGGGAAGAGGGGAAACAAAACTAACATTTATTAAGCAAGGTAATTTCTTACCTCAGTGTTTTCAAACC
AATTGGTAGATTTCAAAATCAATTTAAGGGGTCACAATTAATACTTTAAAATTAAATWAAATAGAAAACATCAGAGTGA
ATCATACATAGTAAGGATAAATGTTATTTCATGTTAAATTATGTTTCAATTCTCTGTATTGGCTCGAATATATATTTAC
TCTTATGTGTATGGTATATACTGTTCCTATATATACATTTCCTTTTTATTTTATATATATAATTCTTTTTATTGGTTTA
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GATCTGAGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGTGAGTCTTGTGCCTCGCTTGAGGCACAAGATTAGATTTAG
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AAGTGCTGGGATTACAGGCATGAGCGACCGTGCCTGGCCAAAAAAAAAAAAACAACAACAAAAAAAAAACAAAAAACAAAA
CAACTTAATTCATAAAACTTAATTCAACAATTTAAGAGTTATACTTCAAGAATGAAGATATATAATGAAAATATGAAGT
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TCTTAATTATCATAATTAAAAATGTCTACACATTACATAATACTATCTAGTAAATATGCCCTAGAGATTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATGTACACCCATTATGTTTTCAGACAATTGGAAGAAAATTGTTAG
GCAATTGTTTTTCTTTTATCAAGGAGCTGTCATTTAAGTGCAAAGCTGGAGTATTCAAAATAAAATTTGGGCTTACAAG
ATCAGGGCATGGCAAGACCTATCCAGATTGCTGTGGAATAATATATGCTTCCAAACGCTAATCTTAAGGATGAAAAACA
CATAAATGACATGCCTTCTTCCCCTTGCTTACCTTAGTGACTACAGTTTAAATAATCTAAAATAGCAGATACCATCAAT
ACTGTTGCTAATTATGCTACTTTTCAGAGAGGTACAAGAGTCCTTGTACCTCTAGTAGTAGTGATACCACTACTAGTAT
CAAAAATACAAGATTGTTTTGTTAATTTTGACCATGTTTTAAAAAAAGATAGGGAGGAGATGAATTACTATTAAAAGCA
GCTCTTATATTTTACATGTAATAGATGATAATTACAAGTTTTTAACAAATAACACATTTAAGTTGAACTGAACCGCCAA
AAAAGATAGAGATATGAATATATGATTTTTAGATTAAAGTTAGTTTTAACATTCAAATAAAGTGTGGGAAAATGGCCTG
GAGGCCACCTTCTAGGGAATGTATTTTTAGCCCTATTTTACAAAAAAGAAAACTGAGGTACAGAGAAGTTAATTTGCCC
AAATTTGCCCCATGGTTGCTAAGTTGCAGAGCCAGCATTTGAACCACTGTTCCCAAGTCATACTCTTTCTATTGCTTGT
AACTGTCATCGTAGACCACTAAAGTGGATACCTCCACAACTCTTTGCTTTCCACTGCATCTGGACTACCACAATAGCTC
CTTAGTCTCCATCCTTCTCTCTTCTCCATTCTATCCTCTTAGGCTACCAGTGCACTTATCCAATTCCCACAATATCCAC
TAGCTCAAGGCCACACATTTAAGTGTTCAACTCTATATCCCTTCTCCTCCCTGGAATGTGTCTACTCCACCCAGCCCAT
TTACTGTCCACACATACAACCTTTATTCAGGCTGCAGACATTTCCTACACCTGAAAACAATGCCAGCGGACTCCCTCCT
CCCACAGCCATTAAAACCACAGTCTTCCTTGAAGACCTACATCCAAGTTCACCTTCTTCCTGAAACCCAGCACACTGAG
CTATAGTCCATACCTCCCTCTCCCTGCTCGAACTACAGTAGCACTCCCAGGCTGAATGATTTATATGCTACCTTACACT
GTCTCTAGGCAGCAGCCGATCATGTGTCTGATTTTCTCAGCAGGTTATTATGGTTCCTTCCTGGGCCCAGGCTGCTGAA
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Fig. 6.33̄3̄

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TCTTTCATGTTCTTGTATTTCACAGCAACTATCACATCAGAGAGGCTCAATAAATATGTATGGATTTTTTGACTATTCT
CTTTCAGGGGGAAAAAAATGAGAGAAAGAAAAGAAGAAAGGGAGGGAGGAAGATTACTCTCTGACCATTTCTCGATAGC
ATACAAAGTCAGGAGGAAGAGAAATAAAATGTCGTTAGTGGAGATTTCAACCATATGGGAACCTACTAAACACATGTAT
TTGTTAATGTTTTGGAGTTACCTGACATATAGGTATAGGTATAGGAAAACCTATTCCAGGTATTCTTCAAGAGGTGATA
GTTGTTGTGTGAAAAATGCATTCTAAAATCAAACAGGTTTAGATAATGCTTGTTAATAAAATTAAATATCTCATTTTGC
TGTGGACCTTCTAGCTTTTGGTAGGTTCGTGTCCATTAGAAATCACTGTAAAAAGCCTACATATACAATATTTCCCAAG
CTTGTTTGACCACAAAACGTCATTAGTAAGGAGAATCTTATAAGGACAATATTGATTGGAACATTCTTTGGGAAATGTT
TGAAATGATCTTCCCAGTAACCTCAGTGTAAGTGATGCTCTGTCATTAACCAATGACAAATACATATTCTTCCTACATA
GTTGACTTTTCATGATTTGGTGTGGTCTTGTAAAAGCTATTCTATTTTGTTGTTTGTTTGTTTTTGAGACAGAGTCTCA
CTCTGTTGCCCAGGCTGGAGTGCAGTGGCAACCATCTCCTCCACCTCCAGGGTTCAATTGATTCTCCTGCCTCAGCCTC
CCAAGAAGCTGGAACTACAGACATGTGCCACACACACCTGGCTACTTTTTGTATTTTTAGTAGAGATGCGGTTTTGCCA
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TTGAGGGTTGATGGTGATGATGGAAAAATAGTAACTGTTTTAGGATTGAGAATCTGTGGAAAAGGAAGGAAACTCTCAA
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CCTTCTATATGTCAGATACAGCCCTTGGTACTTTACATTTCTTATGCATTTCTCATAATAACCCTGTAATTCTCAATGT
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CTGTGTGTATAATAACTTTCTTAGCCAAATCTAAATCTCCATAGATATTCTTGTAAAATTATAAAACTAATTTATCTTA
TTCGTGTATGGAGCCAGTTCATATACAACTGGATAAGCCAAATATAACCGATATACTCTTGAGTTCTGAAATTTGTTCT
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GGCTGGAGTGCAGTGGCACAATCTCGGCTCACTGTAACCTCCGCCTCCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTC
CCAAGTAGCTGGGATTACAGGCACCCGCCACCATGCGTGGCTAATGTTTTGTATTTTCTTTAGTAGAGATGGGGTTCAT
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ACATGAGCCACCATGCCCGGCTGTGTGTTTTTTCTTAATCCCAGTCTTCAACTGGACAAATGTCTCTTTGGCATTACTT
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ACTTGTCATTTTTATTTTAATGTTAATATTTCACTTCAGTAAGACACCATGATCTGCTTGACCATTACCAAATTTTGGC
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CCAGATAGTACAATTTCAGAAATCAGATAATAAATGAATGTTAGAGCTGGGTAGGTGCTAAAGATAATCTGTTCAAACT
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ACATGGTAGAAAGAGAGCAACCTCTGGCCTCTTCTTATAATGGCACGAATCTAATTCATGAGGGCTCCATTCTCATGAC
CTAATTACTTCCGAAGGGCTTTCCCTCCAAATACCGTGACACCGGGGATTAGATTTCAGCATATGAATATTGGAGAGAC
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ATCTTTGTCCACTGTCTGATCTAAACTTTATATCCCTACCTGTTTGTAGCTTCCTGAATGGCCTGTGTTCTCTAAGTGA
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Fig. 6.334

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ACTTCTTCAGAATGAATCCCTGTTCATTCCTTGAAATTCTTTTTTCTTTCTAACTACCCTAAAAACTGTTCCAGGTAWC
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CACATACACACACACACACACACATTCTCTCTCTCTCTCACTCTTTCATGCCCTTACATACATGCACACACAG
AGACCAAGCTGACTCCTTTCTCTTACACACACACACATGCATGTGCACAAACACACATTCTCTCGCTCTCTCATGCGCT
TACACACATGCACACATACATATTCCCTCTCTAGCAACTGGCATATTCCTCCCCTTTCCTGTGTAGATGAGGCACAG
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AGACTCTCGTGAAAGAAATTCTGGTGAATTCCATTGTTTTTTTCTCCATCTTATTACAGTATGATTAATAAGTTAGTGA
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CATATTGTGGGAACATATGTCTGCGTAGGATTTTAATACAGAGATTGTCTTAGATAAGAATAATCGTCAGAGAAGCAAA
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ATCCCGTACAGTGGATCCTTTTACCTCAATGGTCAACATCACTGTGAGTTGTGGGTAAGAGTAATGGACTGAACATTTC
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CAGAAGCCAAGTGCTGGCCCGCAAGAATTGAGGACTGTTTGTTCACAGAAGAGCCTCAGCAGAATGCGGGTGTTACATA
GTTCAAAGGTGCCTTGAAGAAAACTGATGCTGTTGTAGCAGGGGCCTTCAAGGCTCAATTTATTTCTCAGTTGCTGTTC
CATAGCCCTCTCCCAGCCTTTAGGGAGTTTAGCCAATAGTTTTTGCKTGGGTGTTTTTCTCTGTTTAGTTCCTTGACTT
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Fig. 6.335

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AGCAAGATTTGGTGCAGTTAAAGAGTTTTCATGTATTTTTAAGGAGAGCCACAGTGTATACTACTCTGGCAGGGGTTGA
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CAAATGATCCTGAAAAATCGTGGCTAGCTATATTGCCTACTCACCTAGGAATTTGGAAAAAAGCAATATTCTCAGCTCT
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ACTAGCATGTAGATGTGTTCCAGTGATTTTTCATTTTTCTTATTTATACAGATGTTAGAACTTAAAATATATGCTTACC
CCATTTTATCATCATACTCAAATCCTGTCTGTCAAAAGTGGCTGGTGCATGGCTTGGACATAAAATGGATATTCTGAAG
TAAATTGTTCCTCCTGTCACTATACTACCTTCTTAAGAACAAATCCTGTGTATAAAGTGCATGATGTCTTGAAGCATTA
GCCAAAACTTTCCTGAATTATTTTCCACATTAAAAAATAACAACTGAAATATAATGTGTGGAGCCACATCCTGTTAGAT
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CAGCCAGTAAGGACTGGTAATGTTGTGAGACAATTAGTAATAGTTGCCTCGTCAAGATATTTAAGTATTTTTGGCCACC
TATTTACAAGGTCAAGAAGGTTATATTATCTTACAGTTCATCTATGTGCACATATCTTTAAATGAGTGATGCTTTTTTT
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Fig. 6.336

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TTTTCTACCTTTCTATGGTTTTTATCCCACCTGTTCTCATGCAGTTTTTACAAAAAGGCCACGGCATAACAGCCACTTG
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GGCCTGAGTTCTTAATTCTATTGTGTGGTTGATTCTGTGTAAGAAAATGAAGAGCAGAATCAAAAGCCACTTAGCAATG
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TCAATAAAAGGCATCTTAGCCAATTAGCAGCTTTTTAAATGATGCTCTAGGAGCAACTAGCTGTATTTCCTGTATTGGTA
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TTTTGGCAAACCTCTCTAGCATGTTTCTGTTGCCTATAAATTAAATTGCTTTGCTGGGTGCTTTGTCTCAGAGCTTTCT
CTGGCTGCTCCCCCTACTGCTTTGTAATAGTCAATGCAGAACATATAGTAGGACTTTTTGTTGATGTATTTTCTTCTGG
GCAAGAGGGGTGTTATAACAAATATAGGATCTTCATAGAAGTGGCTAAATCTTAAGATATTTCCACATTATGCAACTAC
AGTGTAACTCAACAGATATAAATGTTAAACTTTTGCTAAGAAGGAAACTAAGTTAATTGGAAAAGGCATGTTAGTTTTA
TAGAGAGAAACAGCCTCAGTTGTTTTCTACATTAACATATTAAATCTTAGATTAAAAAAGTGTTAATATGCCTAAATA
CAAACTTTAAATTTCAAAAGAAAATATCTTCTATAATTATAGAAAATCAACATTTAGATGTTTTGAGTTCGATATCTGC
TTTTTCATCTACTCAATAAAGGTAGATTTGGGAAAGATTTATGTAGCTTACATGTAGTACCTTAAAGTTAATATGAAAG
ATTGAGAATCCTATAATCACTGTTAGAAAAAATACTTTCTTTGCTTTTAAGTAATAATGGAAGAGGGAAACAATTTTAA
AGGAAATTTTTCTTTCACTGAAAAGTAGAGCCCTTGATGTTACCTTAGCATAAAACTTAGGATTAAAACAAATCTTAAC
TTGTCTCTGTTGTCATCCGTTCAGTTCCTGTGCCAGTATTTAGTGAAAGTTTAATTATTCCCAACATTTAATTATCAAA
AACTCCTAATTTTTAATTATTCAATAAATTAATCATTACTAGATAAATTTCTTTTTTTTCAGTTACATTTTGACTTAATA
TTTGGGGTAGTAGTGGTAACTTCTGTCTGAGAGCATTATGAACTGTCTACGTTTTCGAAAAAAATTCCGAAACATAAGG
ATTGCCCATGATAAAAGAAGTATTTTTTCTAATGTTATGGGTAGATTAAACAAACTGGTATTTTCTAGAGAGAAAGGA
TGATAGATAATGCTTTTGTTCAGTTTAAGAAGATTTCTGCGATAGTTACATAGACTGTAGCTATCACTTAAGATATAAA
TACATGATGGATGTGCAGTGCTGTTTATGTCATTATTTTCAGTGGATTCACAAAATATGTAGGGTTTGGTTTTTCTCTTT
TTCAGCAGGAGGGACCAACTCTTTTTCTAGAACTGTAGATTGCTGGGGTTAATTTTGTGATAGCGTAGCTCTAGTAGGG
GAGCAGTTTTTACATGGCTATTTGTTGTAATAGTTTAATTGACACTGTTAGTCTGAGATCTTTCTAGAATGTAGAGAGA
TCAGTAGCACTTTATTTTAATATTCACATTAGTTTTGAAAGGCATTTGAAGAAGACTTTTTTTATTCCCTGTAACAGGG
ATTGGGGGGTATGCCTTGATATTTGCTTAAACAACAAACAATTCTGCTGCGTCCATTAGGAAATTAGTTAAGTTCAGTG
ACCAACTACAATGACAATAGGTTTATTATCTTTTACTCTTAGAGAATAGTTTATCTTTTATAAAGTATTTATTATTATT
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Fig. 6.332

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ATTTAGTATTCAGAGCTTCTTGTTTTTGTTTTGTTATACTTTGTATGTGATAAGGATGAATGATATTTACTCCCTGGCC
TGGAGTAGGCACCAGTGATACTTACAGCAGCTTTGTACAGTGAAAAGAACATAAATGTTTTTCATTAGGCAAACTTGGT
TTCAAATTCCAGCTCTGTTGTTTCCTATCTAATATTTTGGGCAATAGGCCTTACCGCTCTGGAGCTCAGTTTTTTCATT
TATAAGTGGCGATAATGAAAGGGGAAAATAAAATGAAAAAGTTATTGAGACCATTAGCTATAATGTATGTAAAGCTCCG
TTTGGTGCATTAGCACACACTGGGTGCTCAATAAATTGCATGTGCTTGCCTGTCTAGAATATACTAAAAAAGAGAGATT
AAGAAAAACTCTGTGTCACATATTTCTTGCAATGTAAAAACATAATATTTCTTAGAAGAAAAACATGACTTTTCTATTC
TTTAAGAATTTACAGTCCAAATTAATGTTGCTCAAACTTTGTCATTTTTGAGACAGAGTCTCGCTCTGTCGCCAGGCTG
GAGTACAGTGATACGATCTCAGCTCACTGCAACCTCCGCCTCCCAAGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAG
TAGCTGGACTACAGGCGCATGCCACCATGCCCAGCTAATTTTTGTATTTTGAGTAGAGATGGGGTTTCACCATGTTGGC
CAGGATGGTCTCGATCTCTTGACCTCGTGATCCTCCCTCCTCGGCCTCCCACAGTGCTGGGATTTTGTCATTTCTGTGT
ACATTCATATCTGCTATTATATGTTGAATGTTTTAACTTAATGTATTTTTTATTAATCTTTAAAATTTATTTRTCAATT
ATTCTTAATTGACAAATATTAATTGTATCTATTTCTTGGGTATAATGTGATTTTTAAAATGTACATCATAGAAAGAT
TTAGTAAAGCTAATTAACATATCTATATTACCTCACCAATTTATCTTTTTGTGATGAGAATGTCAAAAATCTATTTTAG
AAATTGTAAAACATATAATACGTTATTAATTACTGGGGTCTCCATGCAGTGCAATAGATCACTAAAACTTATTCCTCCA
ATCTAACTGAAATTTTGTACTGTTTGATCGACATCTTCCATTTCTCTCTCCCTCCTCCTCTACAGCCTCTGGTAACCCA
CCTTTCTACTCTCTGTTTCTGAGATCGACTTTTCTAGATTCCCCATAAAGTGAGATCATTTATTAAAGACAATATTTGT
CTTTCTGTGCCTGACTTATCTCACTTAGCATAATGTCCTGTAGTTCCATTCCATGATGTTGTGAATGACAGAATTTCTT
TCTTTTATAAGGCTGTGTAATCTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGTGGAGTCTCGCTTTGTAGCCCAGG
CTGGAGTGCAGTGGTGTGATCTCGGCTCACTGCAAGCTCCGCCTCCCAGGTTCATGCCATTCTCCTGCCTCAGCCTCCT
GAGTAGCTGGGACTACAGGCGCCCGCTACCACGCCCCACTAATTTTTTGTATTTTTAAGTAGAGATGGGGTTTTACTAT
GTTAGCCAGGATGGTCTCGATCTCCTGACCTTGTGATCKGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGATCTG
AGCCACTGCGCCCGGCCTGTATAATCTATATATATATATATATATATAATATATATATATATATATATATATA
TCACATTTTCTTTATGCACACTTGATGAACACTTAGATTGCTTCCATATCTTGGCTGTTGTAAATAAAGCTGAAATGAA
TATGGGAGTGCAAATATCTTTTTGATGTACCAATTTCAGTTCCTTTGGGTGTATACCTAGAAGTAGGATTGTTGGATTT
TATGGTAGTTCTATTTTTAGATTTTTGAGGAACCTTCATACTATTTTCAATAATGGTGGTTCTAATTTACATTCCCACC
AACAGTGTAGAAGGGCTCCCTTTTCTCCACATCCTTGCCAACACTTGTTATCATTCATCTGTTTGAACATAGCCATTGT
ACATGGTGGAGAGCAACACATACTGGGGTCTGTTGGCGGGTGGGATGGGTGCAGGGAGAGCATCAGGAAGAATGGCTAG
TGGATGCTGGGCTTAGTGCCTAGGTGATGGGATGATACGTGAAGCAAACATGGCACATGTTTACCTATGTAACAAACCT
GCACATCCTGCACATCCTGCACATGTACCCCTGAACTTAAAAGTTGAAGAGAAAAAAAAGGAAAATAGTCATTCTAACA
GGCATGAGGTGATAGCTCATTGTGGTTTTAATTGCATTTCCCTGAGAATTAGAGATATTGTTGAGTTTTCGTTTGTTTT
TGAGACAGGGTCTTGCTCTTTTGTTCAGGCTGGAGTGCAGTGGCGTGATCATGTCTCACTGTAACCTCAAATTCTCGGG
CTCAATGATCCTGCCTCAGCCTCCCAGTAGCCAGGACTACAGGTGTGTGCCACCATACCTGGCTTTTTATTTTTTCGT
ATAGAGAGGGTCTTGCTATTTGCCCAGGCTTGTCTAGAATTCCTGGCCTCAAGTGATCTCCTGCCTCAGCCTCCCAAA
GCACTGGGATTMCRGGCATGAGCCACTGTGCAGGGCTGGGGAACATTGTTTTTTTTTTTTTTTTTTTTTTTTGTATCT
CTGTTGGCCATTCATATTTCTTTTTTGAGGAAAGTGTGTCTATTCAGATCCTTTGTCTAATTTTAATCGATTTGTTTTC
TTACTATTTGGTTGTTTGAATTTTTTATATATTTTGAATATTAGCCTCTTATCAGATGTATGGTTTGCAGATATTTTCT·
CCTGATCCATGGGTTGTCTTTTCACTCTATTATTTGGTTGCTTGTGCAGGTACTTTTTAGTTTAATGTAGTCCTATTTG·
TCTATTTTTGTTTTAGTTGCCTGTGCTTTTGGAGTCCTATCCAAGAAATCATTGCCCAGACCATTGTTGTGGAGATTTT
CCCTTATATTTTCTTCTAGTAGCTTTACAGTTTCAGGTCTTATGTTTAAGCCTTTATATCTCTTTTGAGTTGATTTTTA
TATGGAGTGTGAGATAAGAGTACAGTTTCTTTCTTCTGCAGGTGGACATCCAGTTTTCCCAACACTATTTGAAGAGACT
GTCCTCTCTCCATTGTGTGTTCTTGGACCCTTTGTCAAAAATCAATTGACTGTAAATACTTGGATTTACTTCTGGGCTT
TCTATCCTGTTCCATTGGTTGATGTTTGTTTTTATGTCAATAACATGCTGTTTTGATTACAGTAGCTTTATAATATATT
TTGAAATGAGGGAATATGATGCCTGCAGCTTTGTTCTTTTTGTTCAAGATTGCTTTGGCTATTAGGTCTTTTTTTGGTT
CATATAAATTTTAAGATTTTTTTCTCTATTTCTGTGAAAAAAAAAAGACATTGGAATTTTGAAAGGAATTGCATTGAAT
CAATAGAGGAACTGCATTGAATCTATAGATGGCTTTGGATAGTGTGGACATTTTAACATTACTAATTCTTTCAGTGCAT
GAACATGGGATATCTTTTCATTTATTTCTGTCTTCTTCAGTTGTTTAAATCAATGTCTTGTAGTTTCCAGTGTATAGAT
CTTTCACCTTGTTGGTTAGATTTGCTCCTAAGTTTTTTGTTTTTTTTTTTTTTGTGATGGAGTCTCGCTCTGTTGCC
CAGGCTAGAGTGCAGTGGCGCGATCTCGGCTTACTGCAAGCTCCACCTCCCAGGTTCACGCCGTTCTCCTGCCTCAGCC
TCCCAATTAGCTGGGACTACAGGCGCCTGCCACCACACCTGCCTTTTTTTTTTTTGTATTTTTAAGTAGAGAYGGGGT
TTCACTGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCATGATCTGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTA
CAGGAGTGAGCCACCACGCCTGGCTGCTCCTAAGTATTTTTTTGATGCTATTGCAAATGGGATTATTTTCTTAATTTCT
TTTTTGGATAATTTATTGTCAAAGTATAGAAATGCTAAGAGCAACTTATTGTTAAATCTAAATACTCACCCAAGTGCCT
CATCTTAAGTAATGGTATACATGAAATCATAGGTTTGATGTTCAAGTTATATTTTTTCTGTATTTTTTCTAAAATTAAT
GAATAACAAAATGAGAAAACATTCATCTTGCACCACCTTAAAGCATTTTGCCTACCATTTACTAACACTGGGCATACTT
TTGGACACACTAGTCTAAATCAGCTGCAAGAACAATTTAGAGACTAATTTATTGTTTTAAACAATCAACATTTTTCCTT
CTTTACCCTCAGTTGGATTTCTCCACTAGAGGAGAAAATGGCAAATTCGTTCAGCAGAAATATTCCAATTCATAAAATA
TTCATTCCTTAGGCAGAATGGTCCGTGGATTTAGAGCACCCTACTATAGACAGCCTGCCTGAATTGGATTCATTCTCTG
CCTTTTACCAAACGTAAATTGGGCCAYGTTGCCTTCTGTGCTTCAGTTTTCTCATCTGTTAAATAGTTGCTGTGGTGAT
TTAATGAATTAAAAGATGGGAATTGTCTCGACTGAGTCAGGAATCATACTAGATACTCAGTAGAACTCATTCATTTCCA
TATGTGAAGGAATAACATTAGTTTTTATTTTATTATTTTGGGGGGGTGAGGGTTAGAGAAGGGTGTCTGCCATCCTGATT
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Fig. 6.338

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TCTATCCTTTTGATAAAGTGACCTAATAATATTGATACTAACCAAAGAGGACTATTATAATGTTTTATTTACTCTTCTC
CCCCATTAATCACTTTTTTTGGTGGTGTGTTTATATGTTTTATTCCTTTATTTTCATCCTTCAAGGAGTTTGCCCTTTGT
TTCCTTCTGTAATTTTACAGTATAGCTCATCAAGCAAGCCTGAGATTTTTGTCAGAATATCTGAAAATCTCTGAGCTTT
TTCTAGCAGAAATGCATAATGCAGTGCAGAAGAATAGTCTAGCCAGTGTTTTTCATAAATGAATGTACATACGTTCTTC
CTCTGCATAAGACTGAAAGTAACCCAGGCACACAATATCTTATTAATATTTAATATTAAGAAAAGTATATTAAGAAGGT
AACTCTCCATTCTACCTCTCAACATCTTACCATCTAGTATACACACAAATATTTCCTTGCTCTATCAGCCGAGAGGGTC
TAGAAGCTACCATACCCCAGTAGCAATGAGCACACTTAGCACCCTCATTTTGGTTTCTAATACCATTCTCTGGTAAAAG
GAACCAAGACTCTTTGAAAAAAAATAGCTGATTTCTAGGGACTCAGGAAGGAAATATGTAAGATGAGCCTGGAGCATCT
TGTAGTGCCAAAAAGTAAGGACCTGCTCAAACAAATGGAACCCTACACCCGTGGGAATATACTGAAGAGTTGCAAGAGC
AAACTGAAAGAGCTCCCAATGGCCAAAGCTAGAACAATTTGAGCAAGAAAATAATATAGTATTGGATTATATCCCAAAG
GGTAAAATAAATATCCATAAACCCATATTGATACAATTTATTAAATAAATACCTAAGTGGGGGAAAATAGACAAATCTC
CTCCTGTGCGGAATTCCCAATAACTTCTATAGATACTCTACTCTCAAGGAGGGAGAACATAACCCCCTACACCGTAAGT
GTGAGCTGTGCATATTGACTTCCTTCTAAACAGTACAGTGTAGAAAGGGAAAAAAAAGAAACTGTAGTGGAGAAWCCTA
TCACTACTTCAGCCAGGTTATCAAGGTCAACATTGACAGTGATAAGTGATAACATGTACCCTCGATATGATCTGATGAA
AATGGCACTTTTAATCTGTGGTTTCCCTACTGAAAACATATAACCCCAGTGTAATCATGAGGCAAATACCAGACAGATC
TCAGTTGAGGGATATTCTACCCTCGAAACTTGACCAGTATTTGACCAGTACTCCTCAAAACTGTCAAGGTTATCAAAAA
CAAGGAAAACCTGAGATACCTACAGCCAAGAAGAGCCTCAGGAGACATGAGGACTAAATATTATGTGGTATCCTGGATG
GGATCCAGAACAGAAAAAAGGAAATTACGTGAAAACTAAGGAAATCTGAATGAAGTGTGGACTTTGTTTAATAATAATG
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CCTATATCTGGGGTGTCCTATGTCTCCCACCTCAGGCTTTCCTAATTGGATACCTTTGACTTTCCACAGAACTTTTATT
TGTAATTCTCTTAACTCTTAGTACAATATTTTGTGTCTCTGTTTTATTGTTCTGATGAGGTCTTCTACGGTGTTTTTAG
CCCAACCCAGTGAGTGTCTGGTGCCTTAGACCACTTGGCCATCCTGACACCCTACACAGTGAGTGTCAATATAACATTT
TGTAGTTAGTCACATAAATTAGTACAAGAATGCATGATGTTGGTTAATGCAAATGCTGTTTTTTACCTTGTATTGGTAG
ATGGAGAGTCTGAGCATTCTACTTTGTGCCTTTCAAGAAAGGTTTTTTTCTTTTTCTTTCAGTGACAGGAATCCTGAGC
ATTTCTCACTTAATCTCAGTTCTGCTTTTAGATACTCATGTCTCAGAAATTTTATCATAGTATATGCTAGATCAATCTC
ATCTCGTTTAAATTAAAAGTTTGTAGTGCACAGGCAAAAACCATAGAGGCCATATTCATGGTCATAAACTGCTCTTTCT
CATCTCTACCTATTTTAGCAATAACATTCTTCTTTATTAGTTTGTTCCAAGTGAAAATGACATAACTGAATACTTTCCCT
GCTAGTCTGGGAAGAAAGGATGTGTTTGTTGGCTTTTGCCTGTCAGAGAGTATTCTGCAATGTTTGCCTAGGGCATGCT
TGCATTCCCATCAGCATCTCTGGTCTGCTGCACTGTAATCCCTATAGGGACAGCCTCTGGCTTTTATTACTGACAAGCA
GTGCACTGTGCAGCCATAGGCACCATAATAGGAAACACCTTGGCCTGTCATAAACAGGTCTGGAGAGTAGAAAGTACAG
GCCTGCTGGGGATGTGTCCATAGCAAAGAGGCAAAGATGCGGCTGCCATATTGGAGTAAGTGCAGGCTAATGTCTGCCA
TCTCCATTTCAGAAAATAACTGGCTGATTTTGAAGCTGCTTTTTGTATAAACAGTAGTGTTTTGGTTGCTTTTTGTTTT
TGGCTTAAATATGAATAAAGCCATCTTAAAGAGATTATACCCTTCAAAGTATTTTGAGAAGATCTATAAAGTATTTTCC
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AGTGGGAAATTAGGAAAAAAAGAACCATGCAAAAATACAAGTGATTGTGTGTCTTTTAAAAGAATTACAAATCACACTG
AATTACCCAAAATTACAAAGAAAAGTGCATTTATTATTAAGGTAACTTGTGTTGTCTGTGCCTTTACATCAACTCCAAG
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TTTTAATAAAGAGATAAAATTATTTCATGAGTGCTTTAAATATATATAGGTGTCATTTTATTATTTACAAGGAAACCCA
TTTCACAAAAGAGGCTAAAGACTGTAAAGATTGAACAAAGCTATAATCCTGTTAAAAATTAAGATAGGTTTAGGAAAAC
TAAAGTCCTAATTTTTTTTTTTGACCACTTTGGCCAGAGCTGTTCATAAATTAGGTAATCAATRTTTGTTGACTAGTC
CCCTCCCTTGTTAAAAACTAAACACTTGTCCTCTTGTATCTTTTTAAAAAAATATTTCAAGTAAGTTTCAACAGTATG
CTGTGATAAGGATGAAACCTATTAACCATTATCCTTGGTATATATTTTGATTTTCTGTTGTTTTCTTAATCTTATATTGT
CAGTATGGTTTCTAAGATCTAAGATCTCCATAAGGGTAAGTGATAATTGGGTTTTGATAAATCATAAGGAATCTTCTAC
TAGAAATATGTCTGTTTATTTATTGTACATCAGGAAAMGATTAGTTTACTTTATGCCAGAAGATAATGTTTGGGCCTAA
ATCTTAATTTTTCTATCTAGTGTTAATACAGTAGAATGCCTAAAGGATATATAGAAGAAAAGACAAAAAAAGAAGATGA
AGAGAATGCATCATTACAGACTGAATCATCAGTCCCTACAGAAGGGGAATTTGTTCTTTCAAAAGTAGAATTTCAGCAG
CCGGGCGTGGTGCCTCAAGCCTGTAATCCCAGCACTTGGGAGGCAGAGGAGAGCAGATCACGCGGTCAGGAGTTAGAG
ACTAGCTGGCCAACATGGTGAAATCCCGTCTCTCCTAAAAATACAAAAATTAGCCAGGTGTGATGGTGCATGTCTGTAA
TCTCAGCTACTCGGGAGGCTGAGCAGGAGAATCACTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCCAAGATCGTGCCA
CTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAGTAGAATTCAGCTGGGCATGGT
GGCTCACACCTGTAATCCCAGCACTTTGGGAGGTCGATCACATGAGGCCAGAAGTTTGAGACCAGCCTGGCCAACATGG
CAAAACCTGGCCTGTACTAAAAATACAAAAATTAGCCAGGTGTGGTGGTGCATGTCTGTTATCTCAGCTACTCGGGAGG
CTGAGCAGGAGAATCACTTGAACCCAGGAGGTAGAGGTTGCAGTGAATGGAGATGGCGCCACTGCACTCCAGTCTGGGC
GACTGAGTGAGACTCCATCTCAAAAAAAAAAAAAAAAAAAAAGTAGAATTCATGGGAAAAATTATTTGTTGCTATTTAGCC
TTATTTTTAAATATTTCAGTATATTGTCTGTTTGATACATATGAACAATCTGACTACAACTCATTGGGAAACACCAGTA
TTTACCTTACCTTCTAATGTAAGGCATGATTCCAGGTATTTTCTCATACCTCAAACCTTAAATCTCTAATTTAGTCCCA
GAAACAGTATTCTACATGTCAAAACGTTTTTTGTTTTGTTTTGTTTTTGGAGACAAGTTCTCACCTTGTCAACCAGGCT
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Fig. 6.339

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GGAGTGCAGTGGCGCCATCATGGCTTACTGCAGCCTTGATCTCCCTGGCTCAAGCCATCCTCCCACCTCAGCCTCCTGA
GTGGATGGAGCCACAGGCATGTGCCACCAGACCGGCTTTTCTGTTTTTTAATTTAATTTAACTTTTTTTTTTTTTTTTT
GTAGAGACAGGGTCTCACTATGTTACCCAGGCTGGTCTCAAACTCCTGGGCTCAAGTGATCCTCCTGCCTTGGCCTCCC
AAAGTGCATGAGCCAGTGCACCCAGCCTCAGAATATTTTTAAAGATGAAAACCTAATGCTCAGTTAAACTTTTATAAGA
TCTATGTGCTTCTAAATAAGTGTAAAGATGACTATTTTCTGGATGTTGTATTGGTGGGGAAGATGGAGAGATAGAAGAA
CAAGTGTTTATTCTCTGGTTGTATTTTCTCTCTCTCTCTTTTTTTTTTTTTCCTTGAGTTAGAGTCTTGCACTGTTGC
CTGGACTGGAGTGCAATGGCGTGATCTAGGCTCACTGCAACCTTCTCCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGC
TTCCCAAGCAGCTGGGATTACAGGCGCCTGCCACCACGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTCA
CTATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCGTAATCTGCCCACCTTGGCCCGCCAAAGTGTTGGGATTACAGG
CGTAAGCCACTGTGCCCGACCTCTGGTTGTATTTTCAAAATATATCCAAATAATATTTTAAAAATGTATTTAGTGAGCA
CTAGATTCCAAAATAGCAAGAGCAATTTCAGCAAAGTATAATTCCTAGAGAGGAATCCTACAGTACCTCGTTTTGCCTT
TTTTGTTCTCTAGGTCATGTCAGGATGGGAGCATAACTGACCTGGCCCTAGTTCCTAGGAGGAGCATGTGCCCTCTAAC
ATGTGCACAGAAGGATAATAGGGTCAGTGGGATGAGGAGACCAAGTGACTAAAGCAGATSTGAGAATCTGAGCTGTAAA
GGATTTGGAGGTGGGATGGAGGGATAAAACCTTAGTGGGAAGCAGACAGCAGATAGAGAAGATATAGGATAAACTCACG
GAAGGTGTAAGCAGGTTCATGGATTTTAAAATTAGCCRTTAAGAGGTTGTGTTGGAGGTCTGTTTTCTTAGTGGGGGCA
AAGTGGCAAGGGAAGTTTCACTTCTGAATAGGGTGGAAAATGAAGATATAAGGAAAGAAAAGAGAGAAAGAGGAAAGACG
TATTAGGCAGTGTGAGGCAGAGAAAGAGAAGAGTGGGAGAAGGAGGGGAGTCAGACTTTCCTTGGCTGGAGGCAAACTG
ACCAATGCCCGTTGCTGCCCCTTTCCACCGCAGGGTTCATTTGGTGAAACCTGGTTGGACTGAACCTTTAGGAGAACCT
TGAAGTAAAAAAGAAATCCCAGACAGGTCAGTGGCGGATGTAAATGTTTAAGGAAGAACAGACAGTCAGCTGTAGAAAT
GGAGGGAGGGGTAGAGCTGACTGGAGAGCGATTTATGGATGGTATATTTCATGAGGCTTGAGTCTTTTTTAGCACTAAT
AGTTGGCGTCAGCTTCACCTGTTGCCTCCATGAGTCATGCCCTGGTAGCAGAGGATGGTGGGCCAACTGCCAAGCCATC
CCCTGAAGGACCGGCTGCCTGGGAGTGAGGAAAGGTGGTTGATGGGCTCTGAGACAGCAAGGTACAAACTGAAATGGGG
TGAAAAGAGACTGTCAAAATAAGTATGGGCTGATTTGTTCTAATATATCATAGGTTATTATTAGATGCTGGAAGAGTAA
AATGGAATAGAAGATGAAAAATGTGAACCTTTATCTTGATTCCATTTTAAATCTCCTAAATTCTGAGGAGCTTTGCAAT
TCCTCTTCTGGATATAAATCTGCCCTACAGTAGAGTTGCAACCTTGGATAAATAAATAAATTTGGCCTCCCTGAGCCTC
TGTTTTCCCTGTAAATCAGGACTAACATAATCTACCTCAAAGGATTGTGTTGAAAATTAAGTGAAAACTTACATAAATT
ATGTAGTGTGGTGGGGACATATGATAGGTACTGTGGCCTATCCTTAGGAGGGATGAGGAATGGAACTATTTTTAAACAT
AAAAGGTCAACTTTATATGCTGCCATATAAGTAACCCAGTGCAATTGGAGCTTGAATCAACAGGGCTGGGAGAAAGCTT
ACAGAGTGTGCCTTTGAAATCCCAATACCCAGTCATGGTGATTTATGAGACCTTACCAGCTTGCATATGTGATGGCCCA
CTGAGTTTGTTTACTTTAGTTTTAGCTCAGTTACCCAGCACTCTATGATAGCCTATTTTTTATTTACACTCTCACTAAC
TCCTTTATTATGATTTCTTTGAAAGAATATGAAGACAGCCATAAAAAAGACTCTTATTGAAGTTGAGAGGGTCTCCTGT
AGGTCTTCACTTCACTGTGTCTAAACATTGGTCTGTTGCTTGTGCTTTGCTTTTCTCTCACCCTGGATGACCTTCAAGG
CTCTTCCAAATGATTTCTCTGATTCCCTGAAATACTGAAATTGTGATTAACAGAAGTTTCAAGTGTTAATCAATATCAA
GATAGTAGTTGTCTCTTCCTGGGGAAACTAGAAATGAAAACCAAACATAGGCCTCTGTAATCATTGCACAGATTAAAAA
TGAAAATGCAGCTGAGAAACAGAGGAATGAATGAGAAACCCTAAACCTAGTTCTAGCCCCAGGATGAGGTCTTTGTCA
TGAGTCTGACGCTAGCCACAGCCGGTAAGAGAAGGAATTCCCTAGTAGTGTAGTTGTTACAAGGGAATGAGTCATTTTG
CAGGTAATTGTTCTTCTTCCATTTTCCACTTGCTGTCAGCCACTTTACAGAGGAGTCGGACTTTGTTCTGCTTAAGAGA
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TACCTTCTTCATTCAGATGAAGTAACAAAGCACAGAAAGTTATTTGTCAAGGTTTCTGTCTTGTAGCAAATACAAAC
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ATTCTCCTGCCTCAGCCTCCTGAGTAGTGGGTATAACAGGTGCATGACCACGCCCAGCTGTTTTTTGTGTTTTTAGTAG
AGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACTCCTGGCCTCAAGTGATCTGCCCACCTCAGCTTTCCAAAG
TGCTGGGATTACAGGTGTGAGTCACCACACCCGGCCAACATCATCACTTTTGAATGAAATTTTTAGTTTGGTGATGACT
TTATTATTTGTATTTGATCCTTGTCCATTTTTCTCTAGATCTGGTACTAATTTCATGTGGAAAATAAATCGTTAGGAGG
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AATTATTGTATGACATGTATCTGCTCCAGAGGTTCTTATAGGTGAAATGAGATTTTTATGTATCTGTATTCAAACACAT
AGATAGATAGATAGATAGATAGATAGATAGATAGCGAAACATATAGACATACCTCTGAAAATACAACCAGCCATA
TAATGTAAGCCTGTTGTGTGTTAATGAATGATAGGGTAATAATACATTATGTTCCTGTCCTGTAGAGGAGTTCGAGTAT
TCAATACAGAGGACCAGAATGATTGGTCCCAGAAAAAGTGCTCCTTAAGCTGGATCTTGAATACTGAGGATTTATATAG
GCATCTAATAGGGAAGAGGTGGTATTCCAGGGGCTGGATAAGGCAGGGTAGGATGGGGTATTCATGTGGATTCGCTTTA
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CCAGTGGCAGGTGTGAGAAATGTAGATTGAGGCCATACTGCAGACTGTCTTAAATGCCAGGTCAAGCCATTTGCACATT
GTCCTATAATTCATGAAGAACCCTTACATTTGACTATAAGGAAAATATTATGAAGAAACTAAAATAAGGTGACTTTAGA
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AATTAGGTGTAAGAGTGATAAGGGCCTGAAATAGGATAGTGATGAAAGAGAGGAATGAGTAGGAGAAAGATTGCACAG
AGAAGGGTGACAGCATACATAAGACTTGGCAGGACCACAGCCAGAAGAAAGCATGAAATTCTAAACCTGAATAATGGAC
AGAATTATAGTTGGAAAATCATGAAGAGAAGCCAGTTGGGTATTGGGGGAGGGCTGGACAATATGACAGTTAAGTTTTT
AGACATATAATTTAGGTAAGGCTATGTATCTAAGCGGAAATGCCCTATAAGCTTTCAGTTGTCAGGACTGGATTTCTGG
TTAAAAAAAAAAAAAAAAAGAGGGGGCAGGATTTTACTTGGGTGTTGTCTGCAAAGTTGATAGCTAAGACCTTAAGGCT
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Fig. 6.340

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CATCTGTGAAACGGGAGTGACAGTGCTCATTAAAGGTTATTATTAGAAATAAATGAAGTAATTCCAGGAGAGTACATAG
GACTCTCCTTGACACATAGTAGACCCTCAATAAACATTAGGTTTTATTATTGTTTATTATGGGTTTTAGGGAACAACAC
TTTTGTGAATTATTAGAACCTTATTTGGGAAGCTATAAAAGCCATCTGCGTGATGTGTTTTCTTAGTACACCAAATGGA
AGTTCATATGTTCCATTCATATACATGCTTCCCTAGCTGTTAGGGGAAGGTGATAGCGCATGTTTAACTGTTGATCACT
GTTTGTAAGGCTTTTCGTGTTTTTTACATATTTGGTTAAGGATCTTAATCCTTGAGCTGTATTTGTTCTCATTTGTTT
GTGTCCAGAGTCAAATTAAGTTTAAGGAATTTATAAAGAGCTTCTTTGCAAGAATGATATTAACTCAATGTACTAAAGC
TACATTCACCCAAAGTGTAATAGACTTACACAACATGGAAGAAATCCAGGAGAGGCAGACAGTTATTCATGAAGAGTGG
TAGTATTCCTGTCTGCCTGTCTGTACATTTGTCAGATCAGTGCATTCTGAGAAAATTATGCCAATTTGAAATCTCCAAA
AGCATTCTCAGCCAGTATCCGTGATTCTGATAGTTTACAAACTGTTGATAGCATAAGCTGTTAGGAAGATATTGTAGAA
ATTTTAATGCAGCTGTTTTAATTAGATTGCTTTCCTTATAACAAGTTTCAGTGTTTCTGGTCACAATACAATTTATTAG
CTCCTGACACATGACACTGCTGGATCACCAACCTTAACTCTGATTCTCTCCATACAACCCAGTATCCTTAAGTAAAATG
CTGCATATTTCATTGCTGGTAAGAGAGGCAGGGCCAAGATTCGAACTCACATGAAGCCAACTAGAGAAGCCTATGCTCT
ACACTATTTTACATCTCATAATTCTCATACACTACTAACCTGTTGCAAATGAAAAGAAGTCTTATTATTGTACCACTT
TTAATTGCACTTATTATTGCCTTCAGTAAAGTCTTCATTTCTAAAATGTCTTAGTAAAACAGTAATTTCATAAAAATAT
TGCCAACTAGGAGTACTAAATTCTAATTTTGGTTATATTATGCGGCCTTGGATAAGGAAGTTTCTTAGGCTTTCATATT
CCAAATTATTGGACTATTCTAAAAACATTTTTAAGTATTTTGATGGATGTAGTCTATTCTAATATAATGTCTTTCAAGT
GTTTGAAAGTTACTACTTATTCAAAACTCAACTGTCTGGCAGCTTTTCTTATCCTGAACTCTGTGAAGAACTTCGGGGA
CAGGAGGTAAAATGTCTTTGAAGAGTAAGAAATCCAAAACTTCATGTATTTACATGTTCTGGTCTTGTCTCATAGGATT
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GCCCTGGCCAGAACTTTCAACACTATGTTGAATAGGAGCGGTGAGAGAAGGCATCCCTGTCTTGTGCCAGTGTTCAAAG
GGAATGCTTCCAGTTTTTGCCCATTCAGTATGATATTGRCTGTGGGTTTGTCATAAATAGCTCTTACTATTTTGAGATA
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Fig. 6.54

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CATCCCATCAATACCGAATTTATTGAGAGTTTTTAGCATGAAGTCCTGTTGAATTTTGTCAAAGGCCTTTTCTGCATCT
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Fig. 6 342

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TTGCTTTTTAGTATTTCATTTTTTTCCAGTATGTCATTTTATGGACACAATTTGTTTACCCATTCACCAGTTGACTGAT
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CTTCCAAAAAGTCCCAGCAGCTATTCACATAGGTGAAAAAACAAAATGCATTTATAATTCTCTGAGCCTAGAACCCAAC
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Fig. 6.343

TACTTTTTACGTATAAGTATTAAATATTTTTACATGGTTTTAATCCACACCAAATTTTCTAGTAATGCAGCAATAGTGT
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CACCAAGTATGTTTTGCCTCGAGGCCTTTGCTTTTGCCATTCCTCACTTGGTTTTCCCTTCTCTACCCTACCTCTCACC
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GATTTCTCATTTAACCCTCCTCGTAAAATGTCTGATTACTCTTGAGCTCAATTCTGGATTCCTAAGAGCCACTCATTCC
TTTCTTAACTTTGTGTACAGTTATTAAAATGTTCTGTTCTGGCTGGGCACGTTGGCTCACACCTGTAATCCCAGCACTT
TGGGAGGCTGAGGTGGGCAGATCCCCTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAATCCCGTCTCTG
CTAAAAATACAAAAATTAGCCAGGCGTGGTGGTGGGCGCCTGTAATCCCAGCTTCTCGGGAGGCTGAGGCAGGAGAATC
GCTTGAACCCGGGAGGCAGAGGTGACAGTGAGCCAAGATCGCACTACTGCACTCTAGCCTGGGCGACASSGAGACTCTG
TCTCTAAATAAATAAATAAAATATTCTCTTCTGATCAAAATACAGATCCTGAGTTCTATATACAAAACACTGCATTCCT
TATGCATACACAGTGCCCTAGCTTTCACATTTCCCTCCCCCCAGAATTGCAAGTGGTCCCACCCCTAGATTTTGAAGGT
TTTAGAACTCTGTCATACATAACAATAGAAACAAAAGGAGCTGAGAGCAGCCATGSCACACAGGTGAGGGAATGTGTCA
TTGCCATCTGTGCCATCTGTGAATTCTGGACATTAGTCGTATTGTTTAATCCCTATGCTTTTATGTTGGATGAGGGGAG
AACTACAGTCATTTCTACATCACCAGGGAGCCCACTTGTTTTGGATTTGAGAGAGGGAAGCAATTAAAATGCTCGATTGC
CATTTTTGGAGCAGTTTTTATTTGGAAGGAAGGGAAGCCAGAGGACATTAAAATTCATAGAAAATGCCCTCCAAAAGGA
TGGGCAATTCTTAAGAATGAACTACGAATTTTGAGGAGTTTTATGGTCATTATTCATCACTGCAAGAGGGAAGCCCCGT
TCATCTTTTCTCAGGGTGGCCTCAGAGCTGCAGGGATACCATTATTCAATGGCGTTTGTCGGGTGAGGAGAAAGCCTCC
CCAGAGGCTGGCCCTTGCCAACCAATCCCAAAGCAGCCTGCACCGAGGCCACACCCCCTCGCCTTATAGGCTAAGAGCT
GGAATGCAATTGGTGCAGAGTTGGGGGTTTTATGGGAGGGGCTTCTTGTCACTCTTCCCGGCTTCCCTGCAGTTCCTTAT

Fig. 6.344

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TTGGTAGCTTTTGACAGGACTAGCCTTTCTTGCAACTAAGCATCTTGACATACATTATTCATTAAGCCCTGGAGCTCGG
GAGAGAAAGATGCAGACCCTTAGATCTTTAGATATTCCTTTATCACGTGGATTTTCTTTATTCAGAATAGTTGCTGAAT
TTTGTGCCATTCTGGAGTCTTACAAATGGCATGTATTCGATGGGAAGACGGCTGGATGGGATTAATGCGAGGCTTTCT
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TGAAGCTAAATACATTTTAGAGCTKWCTATATATATACATATATATATATATACATATAATCAATCAAAAATGCCTG
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GCTKTTTTAGATACGCAGTAGTTCTTCTGTTTGTCATGTGGTATATGTTTGAATTGTGCTTGAAAAATATATGGTAATT
AAATACATTCATTGCAAATAAATTATTGGGCCAAATTACTTATACTGATTTATGGATTCCAGTTAGTATGTTGCACATA
AAGTTTATAAAATTAATTTGTGGCTGTTTCTAAAAATCTATACTACTTTAACCTGACGAGGAATACGTTTTTTTCACCT
TTAGCTATAAAGCCCTAGGTGACATTAAAAATTGACATTACTTAACTATGTAAGTGATACTAAAGTGAAAACTTGATTG
TCTATTATACTTGCAAAACTGAACAAGTTTTTATTACACTGTTTGTGAATCTCAAGAAATGAATTAATAAACAATTC
AATAAGATTGTGTCCATGCTTGGCAGGCTTTTTCCATGCCCTGTGGTAACATTAGCATTGTGATCCTGTCTCCACAATA
GAAGGAGGTAGAAAAACCTTATTCAGTCCTAAATGAAACATCACTTCACAGATTTTTGGTATTTGAGCCACTCGCTTGA
ACCTGGGAGCCAATCACAACACATTTTAAAAGATTCATTTTCTGTTACTCTGAGGATTTTTCAGATTGGAGTGTTTGTC
GTTTGCTTTGTTTCTTTCTTTTTGAAGGACAAGTTCCCCTTTGTTTTAGAGATTTACTTGAATTCTAAAAAAATTAGAA
AACTTATTTCAGTCTTGGTTRTCCAAGTAGTCATGATTCCTTACCTCCCTTTAAATCTGTGGATGATTCAGATTTTTAA
AAATGTTTTTAAAATATATAGACTTCCATTATTTGAATTTTGTTAGCCATWTCTTGGCTAAAAATCTTCAGAAATGCAG
AAAAGTATAGAGAGTAAATATAAGAWGCCCTCATTATCCGCCAGAATTCAGCTCCTAGCTTTTAGCCAGCTCACAACTG
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AAAAACATGTAAAAAATAGCAAATATAGATATATTTGGTCTTATGCATTTTGAAGGTTTTATTTTTATACCATCAATGGA
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TAGCAGAATATTGTCAGGAAAAAATAAGAAAATTTTCTTACTATTGGACCCATACCACCTCCTTAAATATATATTGGGA
GGATATATAATATACCCAGTAGCACACTGGCGTGATGTAGAAGTAAAGGAGATTACATTTAAGGACATTTTGTTTTATT
ATTTTAGTTTGCTTCCTGAACAATCTTAAATGCCTAATGTAAATTGAAGAATTGCAGTTCTGAAAAGCAAAATACAGTA
TTGAGATTCAACTGCATTTTTACTTTCCTTTATGCCTTAACTGCTGTACACAGACATTCTGATGTATAATGAGAACAAA
GGATTCAAAAGCATTCACTTAGAAATCCTCCCCTGTTTTTTTAGTTGCAACCCTAAATCTGTGTATTGTTTTCAGACTA
CTTAGGCCAAAAACAATTAGAAATTCATCAATGGAAAATATTTAGAGGTCACTTAAAAAAATAAACTAAATGCTTAAAT
GGTTCTGCATTTTACAATCGGTTCGTTTCAAACAGCAGTTTAATGTTTTGTCCCTTCTAAATATATTAATTGAGAAATA
TGATGGGATTTCCCAGAAGAATACATTGTATTAGCTTTAAATCAGTCCTTCCCCCTTTGGTAATTTTATGTAGTTATCT
TAGTAAATATTATATAATTATTTTTAGATGAGAGAAGTATCACATTTTTAAATGTTTGTTGAATGATCTAGTGCATTTT
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AAAATACCCTTGTGTTATAACTTAATGTACGCTTCAGAATTATCTTTAGGAAATTCCTTAGACCGTCTTCCTAGAGTAG
AGAAGTAATTGCTTCAAATATTGTCTTTTATAATTATGTTAAAATGAAATGTTGACTTCCTTGGAGTCCCTTATAAGCC
TTGGTAGGGAGGTGGGCATGTGATGGAGGATTTCTCCAATCCATGTTTTTGTGTTTTAAACAAAGGCTGGAAAGTACTC
TGGGAATAATGTATATGACCAGAAAGATGAACATGCAGGATGTCACTTATCTAGTCTGTACAATATTTAGATTCCTTTC
ACTGGCTTTTTTCTTCAGTTATCTGTACTAACTGGCTATTTTGGTGAATTGTTTAAGCAAACTGCCAGGAAAATTATAC
TTCGTTCTTTATATTCTTTTAGAAAAATCCAATAATATATGTAGCATATCTGCAGGTAGCATCCACATGTTCTCTTTGG
GCAACATAATCCTTATACTAGTTTGTGTACAAGTTAGAAGATAAACCTGTGATAACTGGGTCTCTATCTATCTTTATCA
ATCACTCCCAGAAGGCTTCCCTTGTTTTGCTTTATTGAGAGAAGTGCAAGGAGGGCAGCAGTTCCTGTATAGACTGCTG
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TTTTTAATTATTATACTTTAAGTTCTGGTATACATGTGCAGAACGTGCAGGTTTGTTACATAGGTATATACATGCCATG
GTCGTTGCTGCACCCATCAACCTGTCATCTACATTAGGTATTTTGCCTAATGCTGTCCTTCCCCTCCCTACCCGCTSA
TAGGCCCTGGTGTGTGATGTTCCCCTCCCTGTGTCCATGTGTTCTCATTGTTCAACTCCCACTTATGAGTGAGAACATG
TGGTGTTTGGTTTTCTGTTGCTGTGTTAGTTTGCTGAGAATGATGGTTTCCAGCTTCATCCATGTCCCTGCAAAGGACG
TGAACTCATCCCTTTTTATGGCTACGTAGTATTCCATGGTATATATGTGCCACATTTTCTTAATCCAGTCTATCACTGA
TGGACATTTGGGTTGGCTCCAAGTCTTAAGCAAAGAGTTTTTTAAACCTGTGTATGCATGACATTTTAGCTGTGCTTTT
GAGACATAGCTATGGTTTCCCATACTAATGCTATTCCAAATTCTTTATGGGATTTGAGAAAGAGGAGCTAGCTATTTAA
GTAACTATTTTTATGGTTATAACTACAGTCAAATCCTTCATCTGTCTGACCTGCAATGATAAAAATCAGCTATTTACTT
TAAAAGGCCCAAAAGTTATGGACCAAGTGCCAGAAAGTGAGCTGGGAGAAAGAACTCAAATAATATTGAGCATCTACTA
TGTGCCAGGCTAAATAGAAGACACTTCTATATTAGCYCATTAAATTATATGATAGCCCATAATTTACTCAAGAAAATAT
AACTTTGTAAAGAGGGACAGAAAAAATTTTGAACTCTATTATAAATGTCTACAAATATTCTTAGAAGGCCCAAAGTTTA
TTTTTTTCAGTAGGTTATAAGATATAATGCTGAGTGAACACAAGCAGTAACCTATGTTCTGTATACCACCTGATGCCAG
TTTTAAAAAATATGTATTCACATACAAGGGTAGAAAAAAGGCATAAAAGGAAATTTAACAAATTATCTGTGGTTATCTTC
CAGCAGTGGGGATTTACATTATTTTCTTTTTTTTTGGTATAGCTTTCTACATTTTCTATAGCACATGTACATTTTATAAT
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Fig. 6.345

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TAGAAAGGAGTTATAAAAACATATGAACAAAGAAGTGAATTTAGTGTTCCTGAGTTTGAGACTAAGCTTTCTAGACCAG
TAATTTAACAACCAGAATTTGTACTGGTCATGCCAGTTCTTTGTTTTTTGTTTGTTTGTTTGTTTTTTCCCCAGCATT
TATTTTATTTTTATTATACTTTAAGTTCTAGGGTACATGTGGGAATTGAACAATGAGAACACTTGGGCACAGGAAGGGG
AACATCACACATTGGGGCYTGTTGTGGGGTGGGGGGAGGGGGGAGGGAAAGCATTAGGAGATACACCCAATGTAAATGA
CGAGTTCTTTGTTTTTGACTACGCTGGCATGCGAATACACATTTCTCTCATCCAACAGTCCATTGAAATGGTTGAGGGT
TTTTTGTTTGTTTTGATAACAGTTAAATGCGGAGTTAAAACTTAATCTAGATGGTCTATAAGATTGACTTTGGAAGTTA
TTTAGCAAACGGTATAGAGTTAGGCCATCTTGGTATGAATTATGCAGAGAAGCAAAATAATTCTAAATAATTAAATACT
AAGAATTATATTTCAAACATCACTAAAATATACATTCAACACTTACCTTCATACTTAAATGAGAATTTATGGTGAAATT
TCAAATTTTAAAGGCTAATCTGATGATTAGAGTAAATGCATCTGACTTTTTTTTGTCAAGTATCTAATAGCAGTTACTC
TATGTGTAGAAAAAATACATTGTTTCTGTATATTAAGGCAAATATTAAAGGCTTATTAAAAGGCCTCGTCGGGTTGTTT
TCAGAGTCAAAGGACTCTGAAATGCTTAATGCTTAAGAAACAGCTGATGGGGGTGGGAGAAGTGTAAAATCTTTGGGAG
ATTTGGATACTGGTAATGCCATGTGGTGTTGGTAGGTTAATTCCAGTGTTTCTTTCAATGAAATAGGCACTATGGCATC
AGTAATAAAAACTGTGAAGTAGATTGTTGAAAATTGACCTGTTTCCTATTTAGTGACTTGGGAAAATGGTAAATTTTGT
GGATGTTGAGAAACAATAAGTGTTATACTCTTACTTGAAAAACAACTTTTAAAAGGAAACATTATACAGTATTTATTTA
AATATTTTACTTCTCCATAGTCCTGGAAGAGTACTCAAGTCTATTAAGTTTTGCTTTGGAGTAAAAGACTAAATTTTGA
GCCCTTGATCAGTATATATATTCATTTCTGCTAATGATAAATTAATTGAAGAAAGCATTCCATGTTTTATTGTATGGCA
ACACTTTTATGTGCTATAAATTAGTTTCTCTCTTCTCTAAATAACTAATAATACATCTTAATTTTTAATTCCCTTTTCT
TTGCTTATTTCTCCTGATTTTCCCTTCAGCCCTTGGGAGTCTAAATTTGTGCTGGTCAGTCTGGTGGCCATGAGCCACA
TGTGATTATTTAAATTAAAAGTAGTTAAAATTAAATAAAATTCAAAATTTGGTTTCTCATTTGCACTAGCCACATTTCA
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TGCATATATATTTCACTTAAATTTTCCTCTTCTATTATTTCATTTTACTTTTCTGTTTTTCAGTTTAAAAGGATGCTTA
ATCGGGAGCTCACCCATCTCTCTGAAATGAGTCGGTCTGGAAATCAAGTGTCAGAGTTTATATCAAACACATTCTTAGG
TGAGAATAACAACATGCAATTAAATTTTTTTCTTCAGTTGTTTGCTTGTTTGTTTTGTAGGAGGATTGGGGTGCCAAC
TCATTTTGGAAACCAAACAAGTGTTAGAAGTTCTATTTGTTTTCATTCGTCATATTAATAATTCGACACTATCCGCCTC
TGAGTTTTAGAGTTGCAGGTGACAAGGTACATTTTCTTAGTTTTATTTAGGACTTTAGGAATTCTTGAATTAAGATTAT
ATATTGCCATTTTTTCATAGTACCAAACTGTAAAATATATTTATAGAGAGATCTATTCATATCTTCAACAAATTCTTA
TTAAATGCCAGCCATTGTTGGGCAATAGGTGTTTAATGATAAATTAGAAATGATTCCTGCCCTCGATGAATTTACCGTC
TTGTGTACATCAAGCCTAGTAAACTGGTGGGCAGATAAAATACAATTGCTAAATAAAAGTTTGCTAATAATAGCTGAGT
TTGGTGTCCTGGGACAACTCTTGTACCTCATCCACAGAAAGAAAATGCAGTAAATAAAGGTCAGTAATTTGAATGTATC
CTGGACTTACTTTCAAAACAAAATTGCTGTTATATATAGTTAACATTTATTAAACACTCTAGAATATGTTCTATATATA
AGGATGAGTTAGAGTTGCTCATCACTGCCTTGAAATCGTGGATGAAAGTAAGAAGATATCTTAGGTCTTTTACTATAGA
ACACAATTAGCTTATGTACGTATTCACTTATCAGGTAATATTTATGATTCTCTATGCTCCCATAAAACCTGGGGATTTA
ACCCTTATCTCACTATCATACAGAAATAAAAAGTAGCAGAATTAATCTAAGTCATCCAAAACCTGCTGTTTCAGCTCCC
ACAGTGTTACCCATTTCAGTTAGCTGTTAGTTTTATATACTGCTGTTTTCATGACATTTGCGTATAAAGTTTCTACCAT
TTCAAAGTATGTATTGAACTGTAGTCCTTAGTTGGCAAGAACAATATTCAGTTCATTAAGTYAGTTTCACAAAGGAAT
GGAATTGAACAGTGGAAATAACCACCTGTTGTGTATTCTGAGTCTGCTGTCATGCTAAGTCTTGCAGCATTTTTTATTA
GGACATTGTATCAAAGAGGTAACCATGGAATACATTTGATATTATTATTTTGTAATGGAACTTATTTGCTTAATTTTGT
GTTTGAAGACATCAAATTAAGTCCAATTCAAATGTAAATACTGAACTCTCTAAAAGGAAACTTTTTAGTTGGAAACATT
TCCTGGAATATATAATGATCAATTATAATCCTTCCAATTATGCATATGATATAAAACAGATAGAATTAATAATAAATAT
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GAAAAGACCAATGTCTCAGATCAGTGGAGTCAAGAAATTGATGCACAGCTCTAGTCTGACTAATTCAAGTATCCCAAGG
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ATGCCCTTTCATGAATTTTCACTTCTAGTCTTTTAAATGGATAGAAAAGTTTATTAATTGGGGTTTTTTTTTTTCTTT
TTTTGAAGATGGGAAGGCATTTTATAAAGCTCCTTTTAAAGTGCCTTAGACAGGTGGTTTGGTATGTTTTAGGGGTTTG
GGGGGTGATTATTTGCATCTTCATTCATTGTTTGGCCTTAAAGAGTTAGAAATCTGTCATGTCTTCTGGGTTTTAGGA
AAACAGTTAAGGTTTTGTGAATAGATTTTATCCATTAAAGAAGTGCTTTGTGATTGATACTTAAAAAGTACATAAATGT
GTTGTAATGTCAAAGTCACAAGGTTAAGCCATACTGTTCAATTTTCAGTACATTTAAGTAAATGTGCCTAAAGTTTGCC
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GTTTTGTTTTGTTTTGTTTGTTTTGAGACATAGTCTCGCCCTGTCACCCAGGTTGGATTGCAGAATGCAGTGGC
GCGATCTTGGCTCACTACAACCTCTGCCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTA
CAGGCACACACCACCACACCTGACTAATTTTTTTTATTTTTAGTGGAGATGGGGTTTCACCATGTTGGGCAGGCTGGTT
TCAAACTCCTGACCTCAAGTGATCTGCCCGCCTCAGCCTCCCAAAGTTCTGGGATTACAGGCTTGAGCCTCTATGCCCG
GCCACCTAAGGTCTGTAATTTTTAAATGATTGTGTTCATTGAGTCATATTTTACTCCACTTTCTAATATTTTAGTATCT
TTTTTTTTTTTCACTCCAGGAACTAGAAGATGTGAACAAATGGGGTCTTCATGTTTTCAGAATAGCAGAGTTGTCTGG
TAACCGGCCCTTGACTGTTATCATGCACACCATTTTTCAGGTAAGGTGGTTGAGTTSTATTACATTTATTTTATTTAGG
AACTTAATGTCCAGTCTGTAGCTTATGCATACATTTTGTCTTTTTAATATTCCCCACCTTTTGCTTATTTTTATACTT
TTATCCTTATTTGCTCCTTTGCCAAGGGACAAGTAAAGATACAGAAAGGTGGAGTGTGGATAAACCACAAATAACATCA
ATTTTGTTATTTTTTTTGCATTTAAGAAAAAGATGTGATATAGCCAAATTGAAGCAATTTATTAAAATAATAATTTAGA
CATCATCTTAGTCATCTGAACCTGACTGCATAGAGAATGGAGTACTAACTTAAAAAAAAATGAATAAAGCCCCTGCTGGC
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Fig. 6. 346

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TACTAACCTTAGAATATAGTTTTTTCAGTCACTTTCTTGTGTCCTGCTTCTTTCTTCATATCCATTTCTCTCTCTTATT
GACCCTTTGCTCCAGCTTAGGGTGGGATTTAAATGAGAAGTTGAGGCTGCTGTAGATATCTCGGGACCGAAATGGGAAA
CTTCAGCCCTAGAGAGGACGTTGATTTTTAGTTGGTGTGATGCAGGGGTTGAGTTAATAGTGCTTGACTGGAGCTGCCT
CCATGATAATGGGACATAGAAACTTTTAGAGTTGGCACCTCATTCCTGACACCATACAGCTAGGGCGTAGTATTCTTGG
GTTCCAGCAGGACAACCCAACTCTGGTTTTGTCCCAGAGTCCCTGGATCTTCTCAGAGGTTCCCATTTTCCTCACTAGA
CATGTGAGAGTGCAGTTGCCATTTCCAGGTTATCCACTGGCAACACTGGTGTGTGATTTTTTTTTTTAAACATACTCTA
TGGAGAAATTTTTCACATAAAGACAAAAATGTTAAGATGATTTTTTTTCCTACAGGAACGGGATTTATTAAAAACATTT
AAAATTCCAGTAGATACTTTAATTACATATCTTATGACTCTCGAAGACCATTACCATGCTGATGTGGCCTATCACAACA
ATATCCATGCTGCAGATGTTGTCCAGTCTACTCATGTGCTATTATCTACACCTGCTTTGGAGGTAAATCTGTTTCTGAA
ATTTCAAGAACACTAACTTGCCACTCATAAAGGTCTATTAAACTTTTATCTGAAGGGTTTTCAATGGAGAAGATAATTG
GATTCATTGGAAGTATAACTTATTGACTTATGGGGGAAATGCTATAGTTAATAGACAATCAAGTCTTTGATGGATTTT
GCTTATGAAAGTTGGTCACAGATTTAGTGATTGATCTGTTTATGATATTGCTTCTTTGAAATGATCCACTGAACATTTC
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GTTTTCATTATAAAATTATGTTAATACCTCATCATATGGGTGAGTGATTCTCAACTGGAGATGGTTTCTCTTCCCCTTT
CTTTCCCTCCTGCCACCACCAGGGACATTTGGCAATGTCTGGAGGCATTTTTGGTTGTCACAACTATCACATTTTTAGT
TGTACATGATACTGGCATCTTGTTGGTAGAGGCCAGGAATTCTGCTAAAAATCCTACAATGCACAGGACAGCCTCCCAC
GCAAAGAGTTATTGGGCCCAAAATGTCAATAGTGCTGAAGTTGAGAAACCCTGGTTTCGATGAAAGAAAATAATTGCTA
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TTAAAATAATTTCAGAGTTTTAAAATAATATTTTAAAAAATACAGTGAATGGAAAACATTTGATCATGAGATGTAATAA
AATTAGATAAAATATTTTCTTCCAAGATTATACTTTAAAAGTTCACAAGTATCTAAGACTCTCCCTTGACACATTGTAA
CACATTTTGAAGCTTCATTTTGTTTTCCATTTAAATTCTAGAGATTCTTATTTGTTTATACTTTTAATTCATATCATT
GTAGAATAGTAATATTATCTATATTGTCTGATTTTCCAGGCTGTGTTTACAGATTTGGAGATTCTTGCAGCAATTTTTG
CCAGTGCAATACATGATGTAGATCATCCTGGTGTGTCCAATCAATTTCTGATCAATACAAGTAAGTAAACTTTATTTTT.
TCAGAACACATTTTTCCCTTGTACATTTTAGAATGACTAAGGGTCTTTATAAACTCAGAGTCTTCCAGAGCCATAATGT
TCTTTTGAGATGTGTATATATGTGTTTTAGTGATAGTTCATGTTAATGTAATTTAACTGAAAATTATCATTATATCCCT
TGAGGCATGTGATATTTGAAAAATGTGTTCCAGTTCTCTTTAAAAGTAATATATTGCTGTGTTACTAGACAAGGGTAAT
TAAAAATGAAAGTGTGCAGAAAGATTTAGAAAGTTGTATTGGCCCTAAAGTTTTAAATTAAAAAAAAAAGTTATGAGAAT
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CCCAACCCCTGTTCTTTCCTTTTTAAAATCTTCTAATAAGGGTAACAGGAACTTCTTAATATTYTTTCAACCATTTGGT.
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CCCTCCCATATGGTAGATTATAAATTATGGTAGATTATAAAATCATAAATTCACTTTTATATATATAAAAAAATATGCAAAG
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GAATGTAGAGGTAACCTTGCTTTGAGAGATTTAATTCAGAGCTTTAGGATTATTTACCTATTTTTATATCTTATAATGG
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GGATGCAGCTCCCTGCATTTACATGGTATCAGTGGGGAGGTATCAGTGGGGAGGGTTCATTATGTCCTTTCTAAGAAGA
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TCCCTTAGAATTAAGAGTAGATTTAGAAGACAAATTAAAACAACTGATAGAAAGGTCACTGTCTTCCAAGTACTCTGAT
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GCACCAGGCACCAGGTTTTATGGAAGACAATTTTTCCATAAACTGGGGGCGCAGGGAGAGAATGGTTTTGGGATGAAAC
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CAGTAGGGTTCACGCTCCTAGGAGAATCTAATGTCCCTGCTGATCTGACAGGAGGCGGAGCTCAGGCAGTACTGATGCG
GGCTTGCCTGCTGCTCACCTCCTGCTGTGCAGCCCAGTTCCTGACAGGCCACGGACCGATATTGGTCCACAGCCGATGG
ATGGATCGGGGACCCCTGCTTTAAAGGGCACTTGGGCTTTGACTGGCACCTGGAGGACCCTGGCATCAGGGTCCCTGTG
CAGTCTGCCATTTAAGCTAACAAGGCCTCAGTCTACAGATGAATCTGATACTCTAAAGTTTGAGAACCAATGAAATAGT
GGAGGAAACTGAAGAAGATAATTTTATCTCCTTAGGATGTCTGTTTAAAGTCATTTTGCTGGTGACCTGCCTGGGATGG
AAGGATAACTAATCCTGCCGCTGCAAATTCTTTCTTTGTTATTTAGTAATATTGCAATGATCTCCTTTCTGTGTGACCA
CAGCGACATAGGGAAGTTCACAGTTGCCAGAGTAGCTTTGGATTGCTAAAGTTTTTTTGACGATGAGGTGTGATGAGGC
TGTGTTATTCCTGAGGGAATGAATCAGCATTGTCACTTTGTACAGGAAAGTATCCCAGGGTTGTTCCGGGCCCCAGGGC
ATTATCAAAATTACAGCCTTAGTTAGTTTGGTTTGGCTAGGGATCATGTAAGAGAATTATCTTCCCAGCATGCAGTAAA
GGAATCCTTCTAATAACTTGTAAACTTGTGATATGTAGCTTCGTGAAATATTTTATCAAAATTTGTGCTTATTTTTAGT
TTGCAGTAAACCTTTTTTAAAATTTGACTTTTTATATTTTATGGATGGCTTGAGCATCCATGTGTCAAGCCAGCACATT
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Fig. 6.347

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CTCAGCTCTTGCCTCAGAGCTGGAGCTGCCATCCTGTCCAAAGCCTGCAGCTGAATCCATATTTCTCATAATAAAGAAT
TCTAAAGACCTCTGATTATCAAATTTATAAACCCATAGTTGGTTACTTGTCTTACTTTAAGGAAGCTACGGAAGCACTG
AGAGCTTAAGGCACATGGGGGGCGCTGGGGATTCCCTTGGCTGGTTCCCAGGGCAGTTAATCCTCCTGCTTCTTACATG
TGCTCTTCGTTTTTCTTAATTATTTCAGTTGTTTTAGCTTTAGGTGCCAAATGATTTTATACTAATTGTATTTACACTC
GTTGAAAGCATGCTGGAGGTTCTGCAAGCAGAGAGAACAATTCTACCTGGTAGAGTTGGTTAAGCTATAATAAATGATT
TGAGTGTGGGTACTGTGAACAGGATTTAGAGAAATTGAAATTTCAGGCAGGAAGCTGCGTAAATATTTTTAAAGGATGA
TGCATATAAATAAATCCATAGGCCAGGTGCAGTGGCTCACTCCTATAATCCCAGCACTTTGGGAGGTCAAGATGGGTGA
ATCACTGACGTCAGGAGTTCGGAGACCAGCCTGGCCAACAAGGTGAAACCCTGTCTTTACAAAAAAAAATACAAAAAAA
TTAGCCAGGTGTGGTGGCGCATGCCTGTATTCCCAGCCACTCAGGTGGCTGAGGCAGGAGAATTGCTTGAACCTGGGAG
GTAGAGGTTGCAGTGAGCCGAGATCATACCATCACACTCCAGCCTGGACAAGAGTGAAACTCCATCTCAAATAAATAAA
TAAATAAATAAATCCATAAAATGTAAATAGCAGCATGAACTTTTGAATATAAAATGCTGGAGGGTATATTTAACTTAGC
TTTATTTTCTGAAAAAAAGTATCAAAAGTACAGAATATAGCATTAAATTTTACTTGGCAAATGAATTATTTTTGTTAAT
AGCAAAGATGCCTAAGTTTGGGGCAGAAAGATTTATTCACATTAGTGATGCATTCAAAGCATGCGGTTTTTGGTTTCCA
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TTTGAAATTAAAATTTTCATAGCTACACTAGTAGATTGTATGTAGAATTTTATTTTTCTGTATAAACCCACACCTTCAA
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Fig. 6.1348

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Fig. 6.[349]

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Fig. 6.350

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TCACCAGGCACCAAATCTGCCAGAACCTTGATGTTGGACTTCCCAGCCTCTAGACTGTGAGAAGTAAGTGTGTTGTTTA
TAAGCCACCCACTTTATGGTATTTTCTTATAGAAGTCTAAGGAGACTAAGACATACCTACTGAAATTACTACAAAAAAA
AGCAGTTCTCTTCTTTTCCTAATTCTCAACATATTCTCCTTCTTCTCTCTCCTTCCTTCTTTTGCTCTCCAATGAGATC
AGGCTTAAAACCAAAACGAAACAGACTAGAGGTAGTTCTGACTTCCATTTGCTTCTGCTCTCCACTCTGCAAAAACCC
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GGAAGTCATCAGGAACTCCCATACTTCCTATGTGGGAACACAGGGAAAGAGGCATTTTTTCCTGAAGTCTCTGTGTTCC
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AGTGAGAGTCATATTTGCTCCCTGCTGCAAGCCCCCACCCTGCCATTCCAGGACCCTGCTATGGTCCACAATTGGCATT
ATGATTCCCTCTATTTTGCAGCTATGAAAAGTGAGGCCCAAGAAGGTTAATTGACTTGGCTAAGATTATTCACAGGCTA
AATACTGAGATTAATGATTTGCAAACTACAGATTTGACAGAAGTCCTAATGCTATCTCTACATCCTATTTCTGTTGAGG
ACCAAAATTGACTGTTGCATTGCCTTTGATTTCCTTTGACCATCCTTCATTACAGATTTCAGTAATTTTTATGGTCCAA
AGCTAGGTGACAGATATTACATCATATGCATTTGTTAACTCACCCTATGTCTGCATAGCCTTGCTATATGGTCAGAATT
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CTCCAGATTGACTGGGGAACTTGGAGTTAAAGAGCCCCTGACCCCCTAAAAAATTATAGAAAATGAAAGAAGCTGTCAA
GAAAGTAAGGAGCAGAGATAAGAGCAGAGATGGGAGYGTGCCTCTGCCCGGCAGAGACTCACAACATGAGGCAAGACAG
ATCTTAGCTGAACTTCTTGCAGGATGTATGCCTCAATGAAAGGAATGGAGCACGGGCAGCATCCGGCTTAGGCTGGAGC
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ACCTGAATCATGCAAACATATTTTCTGAAAGGTTCTATCACCTGAGAATTGCTTTTCCTTCGCTCCTTGTTTTTGAACC
AAAAAGCCGACCAAATGTATAGTGGCAAACACTTGCTCAGCACCCATCCATGCAAGGCACTGTTTTACCACCAGGCTGC
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CTGTTTCCTGCTATTCAGTTACAGCATCTGGGAAGAGAGTGGCAGAGAACGCCAGGCAACTGCACCCTGCCACAGTGGG
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CAGCTGCTGCAGTCCAGGGAACTGTCCACCATAGAAGACTCTTGGGAAGCAGCCCCTGACCCCAACCCCCTGTGCTTTT
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CAGGACCCAGGTTCCTGGGTGCTTAACGTAACACATAAGGCCCTTAAGGATCTAATCAAACTAAATCATCCCCAACTCC
TCCCATCAACCCCACATAGATATCCCTGTGCCTCAGCTAAATGCTGCCTTTACACCTTGCCTTTACATCTCTCTGCCTG
GAAAACAGCTCATCCCTCTTGATCCAGTTTAAATACACCTTTGTCTGGAAAGCCTTTCCCATTAGTATTTTATACACAA
CCCTATAATAAATATTTCCCCTAATATGTTGTATTTTTTAAAAAAATTCTTTCTCTCACTAGATTGTGAGATTTTTAAT
TTTTATTTTTTTAGACAGTCTCACTCTGTCACCTAGGCTGAAATACAGTGGCGCAATGTTGGCTCACTGCAATCTCTGC
CTCCTGAGTTCAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGCATCACCACGTCCAGCTAA
TTTTTGTAATTTTTTAGTAGAGATGGGGTTTCGCTATGTTGGCCAGGCTGGTCTCGAATCCTGACCTCAGGTGATCCGC
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GGCTCCAGGAAAAGACTCTCTAGGGGTGGACCCTAGAACCTGTGTTTTAACAAGGACTCCAGGTGATAAGTATGCTCCA
TAAAGTTTGAGAAACACTGTTCAAGACATCATGGAGGTGTTTTTCTATTTCTGTTTTTTTTTAAGAAGCAAGTTAATAAT
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TTTAGATAAAATTTTTCAAACACTAAGCTTGTGACCCAGAGTAGATAATAAAGTCAAAAGATGGTTGCCATGAGCACTA
ACCGTGAATTAAAAATAGAATAGAGAATATCACTGTGTGCTGCACATAAGTTTCATTTTCTGAAATTGCTTCATTTACAT
GCATGCATGGGTGCACTTGTGTGCTTGCACACACATGCAAATGTTGCCAAGTAAACTATTTTTAAAAGCATACGAAGCA

Fig. 6.352

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TGGATTTAGAACAAAGTCAACACCAGAGACAACTAGAGGAACCTAAGTCTCTCACCAACCCCCACCCCTGCCAATTTAC
CTGTCATCCATGATTCAAAAATGGTTTCTAAAGGGAAATAAAAATTGATTCAAAAGGGAGACCTAATGAGTAACATAAT
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GTGCTGCATAGATATGTAAGCCACTCATTCTTGTGCAATTACCTATTGTAGAATTTTCAGACTAATATATTTCCTTTTC
CTTGTTTTGATCCTCTGCTGAATCATGAGAATAGTTCTCAGGTGAACAGCAGTGATGTACAGTGTCTCACTGGAAAAGC
AGGAAATAATCAGATGTACCCCAGAACCTTAGGATATGGGAGGCTCTTCTACTGGCCACTCCATGGGAAACTCGCTTG
CTTTGGGGGACAGTTTGCTTTGCTCTATTTTGTGGGCACAGGGTTTTGCCTTATTTTTCTACTCCCTTATTCCCAGCAA
ACATCCTAAAAAGATGTGGGTAAAAGAAAAAGAGAATAAATTTTGCAATTCTACTCACTGGCTAGAAACAGACAGAGAC
ACATGAGTAGAGGCGGAGTTTACCATCACCCTTAATCATCCTGGGGCCCATGTGTGTATAAAAGGCAAGAAAAGAGCCA
TTACCAGGAGGCACTCACCTTCACAGTTTCCACCGCATAATTCCACCCCTCTGTATCAAACTACCCAAATTGCTACACC
AATCACAACTGCCCTCTTGTTCAAAGAAAATAATATCATGGATTTCTTTCCTGGCAGTTCTGCTATTGATTGTTTTTGT
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CGGGAGGATGAGGTGGGAGAATCACTTGAGCCCAGGAGGTTGAGGCTACAGTGAGCTGTGAACATGCTTCTGTGCTCCA
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CATCTCTGAAAAAAAAGGCAGCAGCCCCAGTCAGGGACTTATAGATAAAAACCCCCATCTCCCTGGGACAGAGCACCCA
GGGGAAGCAGCGGTGGGCACAGCGTTCAGCAGACCTTAAACATCCCTGCCTGCTGGGTCTGAAGAGAGCAGCAGATCTCCC
AGGACAGCGTTCAAGCTCTGTTAAGGGTCAGACTGCCTCCTCAAGTGGGTCCCTAACCCCCATTGTAGCCTGACTGGGA
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ACAGCAATGACATCAACCAAAAGGATGTCCACACAAAAACTCCATTCGAAGCTTACCAACATCAAAGACCCAAGGTAGA
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AGGTGGGTAATAACAAACTCCTCTGAGCTAAAGGAGCATGTTCTAACCCAATGCAAGGAAGCCAAGAACGTTGAAAAAA
GGTTAGATGAATTGCTAACTGGAATAACCAGTTTAAAGAAGAACATAAATGACCTGATGGAGCTGAAAAACACAGCATG
GGAACTTTGTGAAGCATATGCAAGTATCAATAGCCAAATAGATCAAACCAAAGAAAGGATATCAGAGATTGAAGATCAA
CTTACTGAAATAAAGCATGAAGACAAGATTAGAGAAAAAGAGGAAAGGAAACAAAGCCTCCAAGAAATATGAGACTA
TGCGAAAAGAACAAACCTACATTTGACTGGTGTACCTAAAAGTGATGGGGAGAATGGAACCAAAAGTTGGAAAACACTC
TTCAGGATATTATCCAAGAGAACTTCCACAACCTAGCAAGTCAGGCCAACATTCAAATTCAGGAAATTCAGAGAACACC
ACAAAGATACTCCTTGAGAAGAGCAACCCTAAGACACATAATCGTCACATTCACCAATGTTGAAATGAAGAAAAAAATG
TTAAGGGCAACCAGAGAGAAAGGTTAGGTTACCCACAAAGGAAAGCCCATCAGACTAACAGTGGATCTCTCTGCAGAAA
CCCTACAAGACAGAAGAGAGTGGGGGCCAATATTCAACTTTCTTAAAGAAAAGAATTTTCAACCCAGAATTTCATATCC
AGCCAAACTAAGCTTCAAAAGTGAAGAAGAAATAAAATCCTTTACAGACAAGCAAATGCTGAGAGATTTTGTCACCACC
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Fig. 6.353.

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AGGCTTGCCTTACAAGAGCTCCTAAAGGAAGCACTAAACATGGAAAGGAAAAACCAGTACCAGCCACTGCAAAAACATA
CCAAATTGTAAAGACCATCAACACTATGAAGAAACTGCATCAACAGGCAAAATAACCAGCTAGCATCATAATGACAGAA
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AGATAGAGTCAAGAAGCAACGGTGTGCTGTATTCAGGAGACCGATCTCACGTGCAAAGACACACATAGACTCAAAATAA
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AAGAGACTTCAACTCCCATACAATAATAGTGGGAGACTTTAACGACCCACTGTCAATATTAGACAGATCAATGGGACAG
AAAATTAATAAGGATATTCAGGACTTGAACTCAGTTCTGGACCAAGCAGACCTAATAGACATCTACAGAACTCTCCACC
CCAAATTCATAGAATATACATTCTTCTCAGCACCACATCACACTTATYCTAAAATTGACCAACAGAATTGGAAGTAAAA
TACTCCTCAGCAAATGCAAAGAATGGAAATCATAACAAACAGTATCTCAAACCACAGTGCATCAAATTAGAACTCAGG
ATTAAGAAACTGACCCAAAACTGCACAACTACATGGAAATTGAACAACCTACTCCTGAATGACTACTGGGTAAATAATA
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AGATTCACAACAGAATTCTACTTGAGGTACAAAGAGCTGGTACCATTCCTTCTGAAACTATTCCAAACAATAGAAAAAG
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CAGCACATCAAAAACCTTATCCACCATGATCAAGTAGGCTTCATCTCTGGGATGCAAGGCTAGTTCAACATATGCAAAT
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CGATAAAATTCAACACCCCTTCACGCTAAAAACTCTCAATAAACTAGGTATTGATGGAAGGTATCTCAAAATAATAAGA
GCTATTTATGACAAACCCACAGCCAATGTCATACTGAATGGGCAAAAGCTGGAAGCTTTCCCTTTGAAAAACCAGAACAA
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TCATCATCTCAGCCCAAAATCTCCTTAAGCTGATAAGCAACTTCAGCAAAGTCTCAGGATACAAAATCAATGTGCAAAA
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ACCTCCATTATTGATTATACCTATATGTTGAGAACATCTTAAGTCCTCTTTTATAGTAAGTTTGAAACATATAATACTA
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Fig. 6(355)

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TACTATAGTCACCCTACTCTGTTATTGCATATTAGAATTTTTTCCTTCTGTGTGTTTGTACCCATTAACCAACCTCTAC
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AGTAGTCCCAACTGATTTTCAAGGTGGCTGCAGGCCATTTCCCAGGCCCACAGGTGGTTCATGTCTGTGGGTGGGGGGT
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ATCATTCCCAGGCCTGCTTTTGATCTGAGCAGTGGCTTTCAAAAAAATGCTGATGAGATTGCTCTCTCACTTAAGAAC
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GGTGACAGTAACCTAAGGGTGAAGAATGTAGAGAGATTTTTCCCAAGAGCAATCCAAGATACTGCTTGAAACATCCGGG
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GACTGGAAAGCTTCATGGGGATATTCTTGCTTGGACATTTCACTGAAGGACATCCAAAAACCTGTTGCCGTTTTTAGAT
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Fig. 6.355

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TTTTTTTCTTGGATTGTTGGTTTTCCTGGTGATCTTACTCCAATCTCTTTGGTGCCATAATTCTACCAGCTGAGTATGA
GAAGGAGCTGGGGTTTCTCAATGCAGAATATGTACTTGGTTCTAATATGGTAGTCTGGTTCTAATATTGTAGCCTTTTT
CTCAGCAATGGTTGCCACATCTGAGTCCTGAATCCCTTTGGAATCAGCCTCTCCAGAGGGTGTATGTTTAGAACCGGCG
TGAGTGAAAGGTAGTCATCCAATGACATGAGGTGGGTGAAAATATTTTAACTGCTTTATTTATAAATTTTCAACTGACC
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TTTAGCATACATAGTGCCTGTTATTTAGCAGGTACTAAAAAATAATATGTATATGTATATACATGTAGCAGAAGGCTAA
CAGGAACTTAGATACACTCAGGAATATATGATAGCATGGAAGGTTGGAACGGTGGGCCTGTGCACAATCAAGTCATGAG
GACTTAGAAAAGACGGAACCATGGCTGGGTGCGGAGGCTCATACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCCAG
TGGATTACCTGAGGTCAGGAGTTCAGGACCAGCTTGGCCAACATGGTAAAACTCTGTCTCTTAAAAAAAAAAAAAAAAAA
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TGCTGTGAGCCAAGATCGCGCCATTGCAGTCCAGCCTGGGCAACAAGAGCAAAACTCAGTCTAAAAAAAAAAAAAAAAA
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GTAGGACTGCACAGACTTGGTTTTGGTTCAGCATTTGGCAATAATCAGTCTTTCTGCTTCAGCCTTCAGGAGCCCACT
TCATCATTCTTTCTGGCATCCCTGTGATCATATGATTACATATCTAATCAGTGTAACAACAACAGCTACTTAAAGAAGG
CATGCCATTAAAGATATTGTTAATATCTCTACATTGCCTTTCAAACATATGTAAGCATTCTAACTTGGAGTGAAATCTT
CTTAGGTGCTTTATATGTTGAAATTCTACCAGTCAGCTGAGGAAGAAATGTATACGGCTTATCCCCAAAATAAGATATT
CCAACAAATAATGTTTATGAGAGCTGTTAATTTATGTTAAAAAAAAAAGCTATTAATAAAATGTTTAAGTAATTAAATT
TGGGAGCTTGATTGGCAGTAGGAATATTAAGAGGATTAGCTAGATAACTAATGTAGAAAATAATATAATTGTATTGAGT
CAACAAAAGCTTATATAGATTTAATTACTATGATGATATTAGATTACTTCATAATTAGAATCTTTGTAGAATTGTTTTG
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TCTTATTTTTTGCATTATATGAGGCTGAATTAAAAGCAGAATGCCATCTGACATTTCAAAATTTCATGGAGAGAAATGT
ATCTGAAATCATATACACCAAAAAGATAAGTAAAATTTGATAGAAAAAAATGAATGTATTTTAGCTGAGTTCTGACATG
CATTTTATTCACAAATCAAACTTCAGAACACAGAAGACAATTTCTTATTTTGAATTTATAGAGACTATTCTAATATTAA
ATTGATTTTTACAAGCTAGCAAATATTTTCAATAGTTGAAGCTTCGGAGTTTCTCATTTATCTAAGCTATGTAAATGCA
TGCAAAGTTTCTTCTAGAAAACAAATTACTGAAAGACATTTTCCTGATTTGTATTTGGCTGTGTTATTCCCCAGAAGGT
GAAATTATTAAACATGCCATTCGAAAGCCAGTAACTCCTTAGTACAGGTTGAACATCCCTAATCTGAAAATCTGAAATC
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AGCTTGATGCTTTGAAACTTATGCTTCAATTACTCATTTCAGTTGTCAGTGTAAAAGGTGTATATGAAATAGAAAAGAA
TTCTGTGTTTAGACAGTTCTCATCAGTGAGATATCTCATTGTGTATATCCCAAAATATTTCAAAAAAATGAAATCCAAA
ACACTTCCAGTTCCAAGCATTTAGGACAAGGGATATTCAATCTGTATCAGAAACATGCGATGGTGACCACAAAAGGAAT
CTGGCAGCTGAAAATTCTGAGTCACTATCATGTCAAACTATAAAAATTTTATACAACTTAAAAAAAAAACCTGCACTAA
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CCTTTGCAAAAATTGCAACACTGAGAAAACTTTGACAGTGAAAGAAATTTGACCTAACCAACTCCACATTGCCTTTAAC
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CTCTTTCCAAAACTAAACTGCCTTTGTAAAACTAATGAAAGGCCACCAGTTTACGAAGATAGGAGGGCCTGAATTCTGC
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GGCCAAAATGTGTATTCAATATACCTCTAACTGGGAGGATCAATTGAAAGTGTTGTTTTACTAAACTCTATAACACAAA
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```

Fig. 6 556

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CCTCTGGGCAGCTCTAGCTCCCTGAGGGASSCAGCACAACAGTGGTCCCTTTCTCAGGAGATACCTGGGACACCAGGCA
GTTCCTCTTAGACCTTCTGGGAGAGGGGTTCCCAGCAGACGCTGGATAGGAGCAATAGCACTGAGAAGGGGTAGCAGAA
GCAGCAGTGGCCTTGACTTGTGTATGTGCACATATGCAAGGAGCCCTTGCGAGACTCCCTTCTCCCCAGGTAGTAGGGT
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GTTAAGTCCAGTGAGGCTCAGAAAGGTGATGTCATTTGTTCAAATCTTCCAGCTAGTTTGTTGGTCAGATCATAACCAG
ACCCTATGAAGTCTAATCATACCCAGCTCTGTAGGCTTTCCTCTTCAATAGGTCCATTCTTATCTCTAACTGAGACCAC
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TCATCAAACTGGCATTCTTATAGAATAAACTTTGCTCTGGGTCACTTACTAATATCTTACAGAAAATTTATAGCAGCAG
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```

Fig. 6. 357

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Position of N ambiguity code		
30102 R	150961 Y	290063 R
30205 Y	152214 R	290164 Y
30559 Y	154374 Y	290801 R
30699 K	157074 M	292925 R
34304 R	157272 R	293201 R
34516 K	160863 Y	293611 Y
34782 R	161195 R	295755 R
35697 K	162720 Y	296143 R
35810 Y	163290 R	296739 Y
36817 Y	165441 K	297107 W
40290 K	166462 R	297460 Y
40454 M	168136 Y	297895 R
49148 S	173481 R	298027 Y
55023 Y	173519 R	298152 N
58397 Y	175259 S	298153 N
58622 R	175603 Y	298585 S
58633 S	181225 Y	298605 K
74447 R	197941 M	298799 R
75896 K	198444 Y	299792 M
82244 S	198745 R	300815 Y
88456 W	221134 R	305880 R
88499 R	222532 K	306978 M
90688 S	224195 R	309436 Y
99035 R	224801 Y	309763 Y
102977 R	226923 R	313529 K
104552 Y	227254 Y	313971 R
104862 R	227460 S	317210 S
105225 Y	228326 K	318829 Y
111252 Y	228647 Y	410826 R
111781 Y	228831 R	
112118 M	230175 K	
118914 W	230288 Y	
120628 R	232201 M	
123312 R	232338 M	
123426 S	234332 R	
125304 M	235271 R	
128015 Y	263539 K	
128393 R	270257 R	
129360 Y	270458 Y	
129361 Y	270498 R	
131865 M	271159 Y	
132562 R	274150 Y	
135112 K	274353 M	
138281 Y	275602 Y	
138806 R	277422 M	
147700 Y	278146 R	
147715 R	286615 Y	
148161 Y	289348 S	
148236 Y	289425 R	
148606 K	289868 R	
	289979 Y	

Fig. 6.358

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<210> 2
<211> 809
<212> PRT
<213> Homo Sapien

<400> 2
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1               5                   10                  15
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            20                  25                  30
Trp Arg His Glu Gln His His Gln Tyr Pro Leu Arg Gln Pro Gln Phe
        35                  40                  45
Arg Leu Leu His Pro His His His Leu Pro Pro Pro Pro Pro Pro Ser
    50                  55                  60
Pro Gln Pro Gln Pro Gln Cys Pro Leu Gln Pro Pro Pro Pro Pro Pro
65                  70                  75                  80
Leu Pro Pro Pro Pro Pro Pro Gly Ala Ala Arg Gly Arg Tyr Ala
            85                  90                  95
Ser Ser Gly Ala Thr Gly Arg Val Arg His Arg Gly Tyr Ser Asp Thr
            100                 105                 110
Glu Arg Tyr Leu Tyr Cys Arg Ala Met Asp Arg Thr Ser Tyr Ala Val
        115                 120                 125
Glu Thr Gly His Arg Pro Gly Leu Lys Lys Ser Arg Met Ser Trp Pro
        130                 135                 140
Ser Ser Phe Gln Gly Leu Arg Arg Phe Asp Val Asp Asn Gly Thr Ser
145                 150                 155                 160
Ala Gly Arg Ser Pro Leu Asp Pro Met Thr Ser Pro Gly Ser Gly Leu
                165                 170                 175
Ile Leu Gln Ala Asn Phe Val His Ser Gln Arg Arg Glu Ser Phe Leu
        180                 185                 190
Tyr Arg Ser Asp Ser Asp Tyr Asp Leu Ser Pro Lys Ser Met Ser Arg
        195                 200                 205
Asn Ser Ser Ile Ala Ser Asp Ile His Gly Asp Asp Leu Ile Val Thr
    210                 215                 220
Pro Phe Ala Gln Val Leu Ala Ser Leu Arg Thr Val Arg Asn Asn Phe
225                 230                 235                 240
Ala Ala Leu Thr Asn Leu Gln Asp Arg Ala Pro Ser Lys Arg Ser Pro
                245                 250                 255
Met Cys Asn Gln Pro Ser Ile Asn Lys Ala Thr Ile Thr Glu Glu Ala
            260                 265                 270
Tyr Gln Lys Leu Ala Ser Glu Thr Leu Glu Glu Leu Asp Trp Cys Leu
        275                 280                 285
Asp Gln Leu Glu Thr Leu Gln Thr Arg His Ser Val Ser Glu Met Ala
    290                 295                 300
Ser Asn Lys Phe Lys Arg Met Leu Asn Arg Glu Leu Thr His Leu Ser
305                 310                 315                 320
Glu Met Ser Arg Ser Gly Asn Gln Val Ser Glu Phe Ile Ser Asn Thr
                325                 330                 335
Phe Leu Asp Lys Gln His Glu Val Glu Ile Pro Ser Pro Thr Gln Lys
            340                 345                 350
Glu Lys Glu Lys Lys Lys Arg Pro Met Ser Gln Ile Ser Gly Val Lys
        355                 360                 365
Lys Leu Met His Ser Ser Leu Thr Asn Ser Ser Ile Pro Arg Phe
    370                 375                 380
Gly Val Lys Thr Glu Gln Glu Asp Val Leu Ala Lys Glu Leu Glu Asp
385                 390                 395                 400
Val Asn Lys Trp Gly Leu His Val Phe Arg Ile Ala Glu Leu Ser Gly
                405                 410                 415
Asn Arg Pro Leu Thr Val Ile Met His Thr Ile Phe Gln Glu Arg Asp
            420                 425                 430
Leu Leu Lys Thr Phe Lys Ile Pro Val Asp Thr Leu Ile Thr Tyr Leu
        435                 440                 445
Met Thr Leu Glu Asp His Tyr His Ala Asp Val Ala Tyr His Asn Asn
    450                 455                 460
```

Fig. 7.1

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```
Ile His Ala Ala Asp Val Val Gln Ser Thr His Val Leu Leu Ser Thr
465                 470                 475                 480
Pro Ala Leu Glu Ala Val Phe Thr Asp Leu Glu Ile Leu Ala Ala Ile
                485                 490                 495
Phe Ala Ser Ala Ile His Asp Val Asp His Pro Gly Val Ser Asn Gln
                500                 505                 510
Phe Leu Ile Asn Thr Asn Ser Glu Leu Ala Leu Met Tyr Asn Asp Ser
        515                 520                 525      .

Ser Val Leu Glu Asn His His Leu Ala Val Gly Phe Lys Leu Leu Gln
        530                 535                 540
Glu Glu Asn Cys Asp Ile Phe Gln Asn Leu Thr Lys Lys Gln Arg Gln
545                 550                 555                 560
Ser Leu Arg Lys Met Val Ile Asp Ile Val Leu Ala Thr Asp Met Ser
                565                 .   570                 575
Lys His Met Asn Leu Leu Ala Asp Leu Lys Thr Met Val Glu Thr Lys
            580                 585                 590
Lys Val Thr Ser Ser Gly Val Leu Leu Leu Asp Asn Tyr Ser Asp Arg
        595                 600                 605
Ile Gln Val Leu Gln Asn Met Val His Cys Ala Asp Leu Ser Asn Pro
    610                 615                 620
Thr Lys Pro Leu Gln Leu Tyr Arg Gln Trp Thr Asp Arg Ile Met Glu
625                 630                 635                 640
Glu Phe Phe Arg Gln Gly Asp Arg Glu Arg Glu Arg Gly Met Glu Ile
                645                 650                 655
Ser Pro Met Cys Asp Lys His Asn Ala Ser Val Glu Lys Ser Gln Val
            660                 665                 670
Gly Phe Ile Asp Tyr Ile Val His Pro Leu Trp Glu Thr Trp Ala Asp
        675                 680                 685
Leu Val His Pro Asp Ala Gln Asp Ile Leu Asp Thr Leu Glu Asp Asn
        690                 695                 700
Arg Glu Trp Tyr Gln Ser Thr Ile Pro Gln Ser Pro Ser Pro Ala Pro
705                 710                 715                 720
Asp Asp Pro Glu Glu Gly Arg Gln Gly Gln Thr Glu Lys Phe Gln Phe
                725                 730                 735
Glu Leu Thr Leu Glu Glu Asp Gly Glu Ser Asp Thr Glu Lys Asp Ser
            740                 745                 750
Gly Ser Gln Val Glu Glu Asp Thr Ser Cys Ser Asp Ser Lys Thr Leu
        755                 760                 765
Cys Thr Gln Asp Ser Glu Ser Thr Glu Ile Pro Leu Asp Glu Gln Val
    770                 775                 780
Glu Glu Glu Ala Val Gly Glu Glu Glu Glu Ser Gln Pro Glu Ala Cys
785                 790                 795                 800
Val Ile Asp Asp Arg Ser Pro Asp Thr
                805
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<210> 3
<211> 150
<212> PRT
<213> Homo Sapien

<400> 3
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Met Asp Arg Thr Ser Tyr Ala Val Glu Thr Gly His Arg Pro Gly Leu
 1               5                  10                  15
Lys Lys Ser Arg Met Ser Trp Pro Ser Ser Phe Gln Gly Leu Arg Arg
            20                  25                  30
Phe Asp Val Asp Asn Gly Thr Ser Ala Gly Arg Ser Pro Leu Asp Pro
        35                  40                  45
Met Thr Ser Pro Gly Ser Gly Leu Ile Leu Gln Ala Asn Phe Val His
    50                  55                  60
Ser Gln Arg Arg Glu Ser Phe Leu Tyr Arg Ser Asp Ser Asp Tyr Asp
65                  70                  75                  80
Leu Ser Pro Lys Ser Met Ser Arg Asn Ser Ser Ile Ala Ser Asp Ile
            85                  90                  95
```

Fig. 7.2

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```
His Gly Asp Asp Leu Ile Val Thr Pro Phe Ala Gln Val Leu Ala Ser
        100             105             110

Leu Arg Thr Val Arg Asn Asn Phe Ala Ala Leu Thr Asn Leu Gln Asp
        115             120             125

Arg Ala Pro Ser Lys Arg Ser Pro Met Cys Asn Gln Pro Ser Ile Asn
130              135             140

Lys Ala Thr Ile Thr Val
145              150


<210> 4
<211> 745
<212> PRT
<213> Homo Sapien


<400> 4
Met Ala Gln Gln Thr Ser Pro Asp Thr Leu Thr Val Pro Glu Val Asp
 1               5              10              15
Asn Pro His Cys Pro Asn Pro Trp Leu Asn Glu Asp Leu Val Lys Ser
            20              25              30
Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys Thr Ala Arg Lys
        35              40              45
Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro Arg Asn Ser Pro
    50              55              60
Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn Ile Pro Lys Gln Arg
65              70              75              80
Arg Phe Thr Val Ala His Thr Cys Phe Asp Val Asp Asn Gly Thr Ser
            85              90              95
Ala Gly Arg Ser Pro Leu Asp Pro Met Thr Ser Pro Gly Ser Gly Leu
        100             105             110
Ile Leu Gln Ala Asn Phe Val His Ser Gln Arg Arg Glu Ser Phe Leu
        115             120             125
Tyr Arg Ser Asp Ser Asp Tyr Asp Leu Ser Pro Lys Ser Met Ser Arg
    130             135             140
Asn Ser Ser Ile Ala Ser Asp Ile His Gly Asp Asp Leu Ile Val Thr
145             150             155             160
Pro Phe Ala Gln Val Leu Ala Ser Leu Arg Thr Val Arg Asn Asn Phe
            165             170             175
Ala Ala Leu Thr Asn Leu Gln Asp Arg Ala Pro Ser Lys Arg Ser Pro
        180             185             190
Met Cys Asn Gln Pro Ser Ile Asn Lys Ala Thr Ile Thr Glu Glu Ala
    195             200             205
Tyr Gln Lys Leu Ala Ser Glu Thr Leu Glu Glu Leu Asp Trp Cys Leu
    210             215             220
Asp Gln Leu Glu Thr Leu Gln Thr Arg His Ser Val Ser Glu Met Ala
225             230             235             240
Ser Asn Lys Phe Lys Arg Met Leu Asn Arg Glu Leu Thr His Leu Ser
            245             250             255
Glu Met Ser Arg Ser Gly Asn Gln Val Ser Glu Phe Ile Ser Asn Thr
        260             265             270
Phe Leu Asp Lys Gln His Glu Val Glu Ile Pro Ser Pro Thr Gln Lys
        275             280             285
Glu Lys Glu Lys Lys Lys Arg Pro Met Ser Gln Ile Ser Gly Val Lys
    290             295             300
Lys Leu Met His Ser Ser Ser Leu Thr Asn Ser Ser Ile Pro Arg Phe
305             310             315             320
Gly Val Lys Thr Glu Gln Glu Asp Val Leu Ala Lys Glu Leu Glu Asp
            325             330             335
Val Asn Lys Trp Gly Leu His Val Phe Arg Ile Ala Glu Leu Ser Gly
        340             345             350

Asn Arg Pro Leu Thr Val Ile Met His Thr Ile Phe Gln Glu Arg Asp
        355             360             365
Leu Leu Lys Thr Phe Lys Ile Pro Val Asp Thr Leu Ile Thr Tyr Leu
    370             375             380
```

Fig. 7.3

```
Met Thr Leu Glu Asp His Tyr His Ala Asp Val Ala Tyr His Asn Asn
385               390               395               400
Ile His Ala Ala Asp Val Val Gln Ser Thr His Val Leu Leu Ser Thr
            405               410               415
Pro Ala Leu Glu Ala Val Phe Thr Asp Leu Glu Ile Leu Ala Ala Ile
            420               425               430
Phe Ala Ser Ala Ile His Asp Val Asp His Pro Gly Val Ser Asn Gln
        435               440               445
Phe Leu Ile Asn Thr Asn Ser Glu Leu Ala Leu Met Tyr Asn Asp Ser
    450               455               460
Ser Val Leu Glu Asn His His Leu Ala Val Gly Phe Lys Leu Leu Gln
465               470               475               480
Glu Glu Asn Cys Asp Ile Phe Gln Asn Leu Thr Lys Lys Gln Arg Gln
                485               490               495
Ser Leu Arg Lys Met Val Ile Asp Ile Val Leu Ala Thr Asp Met Ser
            500               505               510
Lys His Met Asn Leu Leu Ala Asp Leu Lys Thr Met Val Glu Thr Lys
        515               520               525
Lys Val Thr Ser Ser Gly Val Leu Leu Leu Asp Asn Tyr Ser Asp Arg
    530               535               540
Ile Gln Val Leu Gln Asn Met Val His Cys Ala Asp Leu Ser Asn Pro
545               550               555               560
Thr Lys Pro Leu Gln Leu Tyr Arg Gln Trp Thr Asp Arg Ile Met Glu
            565               570               575
Glu Phe Phe Arg Gln Gly Asp Arg Glu Arg Glu Arg Gly Met Glu Ile
        580               585               590
Ser Pro Met Cys Asp Lys His Asn Ala Ser Val Glu Lys Ser Gln Val
    595               600               605
Gly Phe Ile Asp Tyr Ile Val His Pro Leu Trp Glu Thr Trp Ala Asp
    610               615               620
Leu Val His Pro Asp Ala Gln Asp Ile Leu Asp Thr Leu Glu Asp Asn
625               630               635               640
Arg Glu Trp Tyr Gln Ser Thr Ile Pro Gln Ser Pro Ser Pro Ala Pro
            645               650               655
Asp Asp Pro Glu Glu Gly Arg Gln Gly Gln Thr Glu Lys Phe Gln Phe
            660               665               670
Glu Leu Thr Leu Glu Glu Asp Gly Glu Ser Asp Thr Glu Lys Asp Ser
    675               680               685
Gly Ser Gln Val Glu Glu Asp Thr Ser Cys Ser Asp Ser Lys Thr Leu
    690               695               700
Cys Thr Gln Asp Ser Glu Ser Thr Glu Ile Pro Leu Asp Glu Gln Val
705               710               715               720
Glu Glu Glu Ala Val Gly Glu Glu Glu Ser Gln Pro Glu Ala Cys
            725               730               735
Val Ile Asp Asp Arg Ser Pro Asp Thr
        740               745
```

<210> 5
<211> 215
<212> PRT
<213> Homo Sapien

<400> 5

```
Met Ala Gln Gln Thr Ser Pro Asp Thr Leu Thr Val Pro Glu Val Asp
1               5               10              15
Asn Pro His Cys Pro Asn Pro Trp Leu Asn Glu Asp Leu Val Lys Ser
            20              25              30
Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys Thr Ala Arg Lys
        35              40              45
Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro Arg Asn Ser Pro
    50              55              60
Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn Ile Pro Lys Gln Arg
65              70              75              80
```

Fig. 7.4

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```
Arg Phe Thr Val Ala His Thr Cys Phe Asp Val Asp Asn Gly Thr Ser
                85                    90                    95
Ala Gly Arg Ser Pro Leu Asp Pro Met Thr Ser Pro Gly Ser Gly Leu
            100                 105                 110
Ile Leu Gln Ala Asn Phe Val His Ser Gln Arg Arg Glu Ser Phe Leu
            115                 120                 125
Tyr Arg Ser Asp Ser Asp Tyr Asp Leu Ser Pro Lys Ser Met Ser Arg
    130                 135                 140
Asn Ser Ser Ile Ala Ser Asp Ile His Gly Asp Asp Leu Ile Val Thr
145                 150                 155                 160
Pro Phe Ala Gln Val Leu Ala Ser Leu Arg Thr Val Arg Asn Asn Phe
                165                 170                 175
Ala Ala Leu Thr Asn Leu Gln Asp Arg Ala Pro Ser Lys Arg Ser Pro
            180                 185                 190
Met Cys Asn Gln Pro Ser Ile Asn Lys Ala Thr Ile Thr Gly Leu Tyr
    195                 200                 205
Asn Gly Ile Ile Ala Phe Leu
    210                 215
```

<210> 6
<211> 673
<212> PRT
<213> Homo Sapien

<400> 6
```
Met Met His Val Asn Asn Phe Pro Phe Arg Arg His Ser Trp Ile Cys
1               5                   10                  15
Phe Asp Val Asp Asn Gly Thr Ser Ala Gly Arg Ser Pro Leu Asp Pro
            20                  25                  30
Met Thr Ser Pro Gly Ser Gly Leu Ile Leu Gln Ala Asn Phe Val His
        35                  40                  45
Ser Gln Arg Arg Glu Ser Phe Leu Tyr Arg Ser Asp Ser Asp Tyr Asp
    50                  55                  60
Leu Ser Pro Lys Ser Met Ser Arg Asn Ser Ser Ile Ala Ser Asp Ile
65                  70                  75                  80
His Gly Asp Asp Leu Ile Val Thr Pro Phe Ala Gln Val Leu Ala Ser
                85                  90                  95
Leu Arg Thr Val Arg Asn Asn Phe Ala Ala Leu Thr Asn Leu Gln Asp
            100                 105                 110
Arg Ala Pro Ser Lys Arg Ser Pro Met Cys Asn Gln Pro Ser Ile Asn
            115                 120                 125
Lys Ala Thr Ile Thr Glu Glu Ala Tyr Gln Lys Leu Ala Ser Glu Thr
    130                 135                 140
Leu Glu Glu Leu Asp Trp Cys Leu Asp Gln Leu Glu Thr Leu Gln Thr
145                 150                 155                 160
Arg His Ser Val Ser Glu Met Ala Ser Asn Lys Phe Lys Arg Met Leu
                165                 170                 175
Asn Arg Glu Leu Thr His Leu Ser Glu Met Ser Arg Ser Gly Asn Gln
            180                 185                 190
Val Ser Glu Phe Ile Ser Asn Thr Phe Leu Asp Lys Gln His Glu Val
            195                 200                 205
Glu Ile Pro Ser Pro Thr Gln Lys Glu Lys Glu Lys Lys Lys Arg Pro
    210                 215                 220
Met Ser Gln Ile Ser Gly Val Lys Lys Leu Met His Ser Ser Ser Leu
225                 230                 235                 240
Thr Asn Ser Ser Ile Pro Arg Phe Gly Val Lys Thr Glu Gln Glu Asp
                245                 250                 255
Val Leu Ala Lys Glu Leu Glu Asp Val Asn Lys Trp Gly Leu His Val
            260                 265                 270
Phe Arg Ile Ala Glu Leu Ser Gly Asn Arg Pro Leu Thr Val Ile Met
    275                 280                 285
His Thr Ile Phe Gln Glu Arg Asp Leu Leu Lys Thr Phe Lys Ile Pro
    290                 295                 300
```

Fig. 7.5

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```
Val Asp Thr Leu Ile Thr Tyr Leu Met Thr Leu Glu Asp His Tyr His
305                 310             315             320
Ala Asp Val Ala Tyr His Asn Asn Ile His Ala Ala Asp Val Val Gln
            325             330             335
Ser Thr His Val Leu Leu Ser Thr Pro Ala Leu Glu Ala Val Phe Thr
            340             345             350
Asp Leu Glu Ile Leu Ala Ala Ile Phe Ala Ser Ala Ile His Asp Val
        355             360             365
Asp His Pro Gly Val Ser Asn Gln Phe Leu Ile Asn Thr Asn Ser Glu
    370             375             380
Leu Ala Leu Met Tyr Asn Asp Ser Ser Val Leu Glu Asn His His Leu
385             390             395             400
Ala Val Gly Phe Lys Leu Leu Gln Glu Glu Asn Cys Asp Ile Phe Gln
            405             410             415
Asn Leu Thr Lys Lys Gln Arg Gln Ser Leu Arg Lys Met Val Ile Asp
            420             425             430
Ile Val Leu Ala Thr Asp Met Ser Lys His Met Asn Leu Leu Ala Asp
            435             440             445
Leu Lys Thr Met Val Glu Thr Lys Lys Val Thr Ser Ser Gly Val Leu
    450             455             460
Leu Leu Asp Asn Tyr Ser Asp Arg Ile Gln Val Leu Gln Asn Met Val
465             470             475             480
His Cys Ala Asp Leu Ser Asn Pro Thr Lys Pro Leu Gln Leu Tyr Arg
            485             490             495
Gln Trp Thr Asp Arg Ile Met Glu Glu Phe Phe Arg Gln Gly Asp Arg
            500             505             510
Glu Arg Glu Arg Gly Met Glu Ile Ser Pro Met Cys Asp Lys His Asn
    515             520             525
Ala Ser Val Glu Lys Ser Gln Val Gly Phe Ile Asp Tyr Ile Val His
    530             535             540
Pro Leu Trp Glu Thr Trp Ala Asp Leu Val His Pro Asp Ala Gln Asp
545             550             555             560
Ile Leu Asp Thr Leu Glu Asp Asn Arg Glu Trp Tyr Gln Ser Thr Ile
            565             570             575
Pro Gln Ser Pro Ser Pro Ala Pro Asp Asp Pro Glu Glu Gly Arg Gln
    580             585             590
Gly Gln Thr Glu Lys Phe Gln Phe Glu Leu Thr Leu Glu Glu Asp Gly
    595             600             605
Glu Ser Asp Thr Glu Lys Asp Ser Gly Ser Gln Val Glu Glu Asp Thr
    610             615             620
Ser Cys Ser Asp Ser Lys Thr Leu Cys Thr Gln Asp Ser Glu Ser Thr
625             630             635             640

Glu Ile Pro Leu Asp Glu Gln Val Glu Glu Glu Ala Val Gly Glu Glu
            645             650             655
Glu Glu Ser Gln Pro Glu Ala Cys Val Ile Asp Asp Arg Ser Pro Asp
            660             665             670
Thr
```

```
<210> 7
<211> 15
<212> PRT
<213> Homo Sapien

<400> 7
Met Met His Val Asn Asn Phe Pro Phe Arg Arg His Ser Trp Ile
1               5               10              15


<210> 8
<211> 687
<212> PRT
<213> Homo Sapien

<400> 8
```

Fig. 7.6

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```
Met Ala Phe Val Trp Asp Pro Leu Gly Ala Thr Val Pro Gly Pro Ser
1               5               10              15
Thr Arg Ala Lys Ser Arg Leu Arg Phe Ser Lys Ser Tyr Ser Phe Asp
        20              25              30
Val Asp Asn Gly Thr Ser Ala Gly Arg Ser Pro Leu Asp Pro Met Thr
        35              40              45
Ser Pro Gly Ser Gly Leu Ile Leu Gln Ala Asn Phe Val His Ser Gln
    50              55              60
Arg Arg Glu Ser Phe Leu Tyr Arg Ser Asp Ser Asp Tyr Asp Leu Ser
65              70              75              80
Pro Lys Ser Met Ser Arg Asn Ser Ser Ile Ala Ser Asp Ile His Gly
            85              90              95
Asp Asp Leu Ile Val Thr Pro Phe Ala Gln Val Leu Ala Ser Leu Arg
        100             105             110
Thr Val Arg Asn Asn Phe Ala Ala Leu Thr Asn Leu Gln Asp Arg Ala
    115             120             125
Pro Ser Lys Arg Ser Pro Met Cys Asn Gln Pro Ser Ile Asn Lys Ala
    130             135             140
Thr Ile Thr Glu Glu Ala Tyr Gln Lys Leu Ala Ser Glu Thr Leu Glu
145             150             155             160
Glu Leu Asp Trp Cys Leu Asp Gln Leu Glu Thr Leu Gln Thr Arg His
            165             170             175
Ser Val Ser Glu Met Ala Ser Asn Lys Phe Lys Arg Met Leu Asn Arg
            180             185             190
Glu Leu Thr His Leu Ser Glu Met Ser Arg Ser Gly Asn Gln Val Ser
    195             200             205
Glu Phe Ile Ser Asn Thr Phe Leu Asp Lys Gln His Glu Val Glu Ile
    210             215             220
Pro Ser Pro Thr Gln Lys Glu Lys Glu Lys Lys Lys Arg Pro Met Ser
225             230             235             240
Gln Ile Ser Gly Val Lys Lys Leu Met His Ser Ser Ser Leu Thr Asn
            245             250             255
Ser Ser Ile Pro Arg Phe Gly Val Lys Thr Glu Gln Glu Asp Val Leu
        260             265             270

Ala Lys Glu Leu Glu Asp Val Asn Lys Trp Gly Leu His Val Phe Arg
    275             280             285
Ile Ala Glu Leu Ser Gly Asn Arg Pro Leu Thr Val Ile Met His Thr
    290             295             300
Ile Phe Gln Glu Arg Asp Leu Leu Lys Thr Phe Lys Ile Pro Val Asp
305             310             315             320
Thr Leu Ile Thr Tyr Leu Met Thr Leu Glu Asp His Tyr His Ala Asp
            325             330             335
Val Ala Tyr His Asn Asn Ile His Ala Ala Asp Val Val Gln Ser Thr
            340             345             350
His Val Leu Leu Ser Thr Pro Ala Leu Glu Ala Val Phe Thr Asp Leu
    355             360             365
Glu Ile Leu Ala Ala Ile Phe Ala Ser Ala Ile His Asp Val Asp His
    370             375             380
Pro Gly Val Ser Asn Gln Phe Leu Ile Asn Thr Asn Ser Glu Leu Ala
385             390             395             400
Leu Met Tyr Asn Asp Ser Ser Val Leu Glu Asn His His Leu Ala Val
            405             410             415
Gly Phe Lys Leu Leu Gln Glu Glu Asn Cys Asp Ile Phe Gln Asn Leu
    420             425             430
Thr Lys Lys Gln Arg Gln Ser Leu Arg Lys Met Val Ile Asp Ile Val
    435             440             445
Leu Ala Thr Asp Met Ser Lys His Met Asn Leu Leu Ala Asp Leu Lys
    450             455             460
Thr Met Val Glu Thr Lys Lys Val Thr Ser Ser Gly Val Leu Leu Leu
465             470             475             480
Asp Asn Tyr Ser Asp Arg Ile Gln Val Leu Gln Asn Met Val His Cys
            485             490             495
Ala Asp Leu Ser Asn Pro Thr Lys Pro Leu Gln Leu Tyr Arg Gln Trp
            500             505             510
Thr Asp Arg Ile Met Glu Glu Phe Phe Arg Gln Gly Asp Arg Glu Arg
    515             520             525
```

Fig. 7.7

```
Glu Arg Gly Met Glu Ile Ser Pro Met Cys Asp Lys His Asn Ala Ser
    530                 535                 540
Val Glu Lys Ser Gln Val Gly Phe Ile Asp Tyr Ile Val His Pro Leu
545                 550                 555                 560
Trp Glu Thr Trp Ala Asp Leu Val His Pro Asp Ala Gln Asp Ile Leu
            565                 570                 575
Asp Thr Leu Glu Asp Asn Arg Glu Trp Tyr Gln Ser Thr Ile Pro Gln
            580                 585                 590
Ser Pro Ser Pro Ala Pro Asp Asp Pro Glu Glu Gly Arg Gln Gly Gln
        595                 600                 605
Thr Glu Lys Phe Gln Phe Glu Leu Thr Leu Glu Glu Asp Gly Glu Ser
    610                 615                 620
Asp Thr Glu Lys Asp Ser Gly Ser Gln Val Glu Glu Asp Thr Ser Cys
625                 630                 635                 640
Ser Asp Ser Lys Thr Leu Cys Thr Gln Asp Ser Glu Ser Thr Glu Ile
            645                 650                 655
Pro Leu Asp Glu Gln Val Glu Glu Glu Ala Val Gly Glu Glu Glu Glu
            660                 665                 670
Ser Gln Pro Glu Ala Cys Val Ile Asp Asp Arg Ser Pro Asp Thr
        675                 680                 685


<210> 9
<211> 585
<212> PRT
<213> Homo Sapien

<400> 9
Met Lys Glu Gln Pro Ser Cys Ala Gly Thr Gly His Pro Ser Met Ala
1               5                   10                  15
Gly Tyr Gly Arg Met Ala Pro Phe Glu Leu Ala Ser Gly Pro Val Lys
            20                  25                  30
Arg Leu Arg Thr Glu Ser Pro Phe Pro Cys Leu Phe Ala Glu Glu Ala
        35                  40                  45
Tyr Gln Lys Leu Ala Ser Glu Thr Leu Glu Glu Leu Asp Trp Cys Leu
    50                  55                  60
Asp Gln Leu Glu Thr Leu Gln Thr Arg His Ser Val Ser Glu Met Ala
65                  70                  75                  80
Ser Asn Lys Phe Lys Arg Met Leu Asn Arg Glu Leu Thr His Leu Ser
            85                  90                  95
Glu Met Ser Arg Ser Gly Asn Gln Val Ser Glu Phe Ile Ser Asn Thr
            100                 105                 110
Phe Leu Asp Lys Gln His Glu Val Glu Ile Pro Ser Pro Thr Gln Lys
        115                 120                 125
Glu Lys Glu Lys Lys Lys Arg Pro Met Ser Gln Ile Ser Gly Val Lys
    130                 135                 140
Lys Leu Met His Ser Ser Ser Leu Thr Asn Ser Ser Ile Pro Arg Phe
145                 150                 155                 160
Gly Val Lys Thr Glu Gln Glu Asp Val Leu Ala Lys Glu Leu Glu Asp
            165                 170                 175
Val Asn Lys Trp Gly Leu His Val Phe Arg Ile Ala Glu Leu Ser Gly
        180                 185                 190
Asn Arg Pro Leu Thr Val Ile Met His Thr Ile Phe Gln Glu Arg Asp
    195                 200                 205
Leu Leu Lys Thr Phe Lys Ile Pro Val Asp Thr Leu Ile Thr Tyr Leu
    210                 215                 220
Met Thr Leu Glu Asp His Tyr His Ala Asp Val Ala Tyr His Asn Asn
225                 230                 235                 240
Ile His Ala Ala Asp Val Val Gln Ser Thr His Val Leu Leu Ser Thr
            245                 250                 255
Pro Ala Leu Glu Ala Val Phe Thr Asp Leu Glu Ile Leu Ala Ala Ile
            260                 265                 270
Phe Ala Ser Ala Ile His Asp Val Asp His Pro Gly Val Ser Asn Gln
    275                 280                 285
Phe Leu Ile Asn Thr Asn Ser Glu Leu Ala Leu Met Tyr Asn Asp Ser
    290                 295                 300
```

Fig. 7.8

```
Ser Val Leu Glu Asn His His Leu Ala Val Gly Phe Lys Leu Leu Gln
305                 310                 315                 320
Glu Glu Asn Cys Asp Ile Phe Gln Asn Leu Thr Lys Lys Gln Arg Gln
            325                 330                 335
Ser Leu Arg Lys Met Val Ile Asp Ile Val Leu Ala Thr Asp Met Ser
        340                 345                 350
Lys His Met Asn Leu Leu Ala Asp Leu Lys Thr Met Val Glu Thr Lys
        355                 360                 365
Lys Val Thr Ser Ser Gly Val Leu Leu Leu Asp Asn Tyr Ser Asp Arg
    370                 375                 380
Ile Gln Val Leu Gln Asn Met Val His Cys Ala Asp Leu Ser Asn Pro
385                 390                 395                 400
Thr Lys Pro Leu Gln Leu Tyr Arg Gln Trp Thr Asp Arg Ile Met Glu
            405                 410                 415
Glu Phe Phe Arg Gln Gly Asp Arg Glu Arg Glu Arg Gly Met Glu Ile
        420                 425                 430
Ser Pro Met Cys Asp Lys His Asn Ala Ser Val Glu Lys Ser Gln Val
        435                 440                 445
Gly Phe Ile Asp Tyr Ile Val His Pro Leu Trp Glu Thr Trp Ala Asp
    450                 455                 460
Leu Val His Pro Asp Ala Gln Asp Ile Leu Asp Thr Leu Glu Asp Asn
465                 470                 475                 480
Arg Glu Trp Tyr Gln Ser Thr Ile Pro Gln Ser Pro Ser Pro Ala Pro
            485                 490                 495
Asp Asp Pro Glu Glu Gly Arg Gln Gly Gln Thr Glu Lys Phe Gln Phe
        500                 505                 510
Glu Leu Thr Leu Glu Glu Asp Gly Glu Ser Asp Thr Glu Lys Asp Ser
    515                 520                 525
Gly Ser Gln Val Glu Glu Asp Thr Ser Cys Ser Asp Ser Lys Thr Leu
    530                 535                 540
Cys Thr Gln Asp Ser Glu Ser Thr Glu Ile Pro Leu Asp Glu Gln Val
545                 550                 555                 560
Glu Glu Glu Ala Val Gly Glu Glu Glu Ser Gln Pro Glu Ala Cys
            565                 570                 575
Val Ile Asp Asp Arg Ser Pro Asp Thr
            580                 585
```

```
<210> 10
<211> 507
<212> PRT
<213> Homo Sapien

<400> 10
Met Ala Ser Asn Lys Phe Lys Arg Met Leu Asn Arg Glu Leu Thr His
1               5                   10                  15
Leu Ser Glu Met Ser Arg Ser Gly Asn Gln Val Ser Glu Phe Ile Ser
            20                  25                  30
Asn Thr Phe Leu Asp Lys Gln His Glu Val Glu Ile Pro Ser Pro Thr
        35                  40                  45
Gln Lys Glu Lys Glu Lys Lys Arg Pro Met Ser Gln Ile Ser Gly
    50                  55                  60
Val Lys Lys Leu Met His Ser Ser Ser Leu Thr Asn Ser Ser Ile Pro
65                  70                  75                  80
Arg Phe Gly Val Lys Thr Glu Gln Glu Asp Val Leu Ala Lys Glu Leu
            85                  90                  95
Glu Asp Val Asn Lys Trp Gly Leu His Val Phe Arg Ile Ala Glu Leu
            100                 105                 110
Ser Gly Asn Arg Pro Leu Thr Val Ile Met His Thr Ile Phe Gln Glu
        115                 120                 125
Arg Asp Leu Leu Lys Thr Phe Lys Ile Pro Val Asp Thr Leu Ile Thr
    130                 135                 140
Tyr Leu Met Thr Leu Glu Asp His Tyr His Ala Asp Val Ala Tyr His
145                 150                 155                 160
Asn Asn Ile His Ala Ala Asp Val Val Gln Ser Thr His Val Leu Leu
            165                 170                 175
```

Fig. 7.9

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```
Ser Thr Pro Ala Leu Glu Ala Val Phe Thr Asp Leu Glu Ile Leu Ala
            180                 185                 190
Ala Ile Phe Ala Ser Ala Ile His Asp Val Asp His Pro Gly Val Ser
        195                 200                 205
Asn Gln Phe Leu Ile Asn Thr Asn Ser Glu Leu Ala Leu Met Tyr Asn
    210                 215                 220
Asp Ser Ser Val Leu Glu Asn His His Leu Ala Val Gly Phe Lys Leu
225                 230                 235                 240
Leu Gln Glu Glu Asn Cys Asp Ile Phe Gln Asn Leu Thr Lys Lys Gln
            245                 250                 255
Arg Gln Ser Leu Arg Lys Met Val Ile Asp Ile Val Leu Ala Thr Asp
            260                 265                 270

Met Ser Lys His Met Asn Leu Leu Ala Asp Leu Lys Thr Met Val Glu
            275                 280                 285
Thr Lys Lys Val Thr Ser Ser Gly Val Leu Leu Leu Asp Asn Tyr Ser
            290                 295                 300
Asp Arg Ile Gln Val Leu Gln Asn Met Val His Cys Ala Asp Leu Ser
305                 310                 315                 320
Asn Pro Thr Lys Pro Leu Gln Leu Tyr Arg Gln Trp Thr Asp Arg Ile
            325                 330                 335
Met Glu Glu Phe Phe Arg Gln Gly Asp Arg Glu Arg Glu Arg Gly Met
            340                 345                 350
Glu Ile Ser Pro Met Cys Asp Lys His Asn Ala Ser Val Glu Lys Ser
            355                 360                 365
Gln Val Gly Phe Ile Asp Tyr Ile Val His Pro Leu Trp Glu Thr Trp
    370                 375                 380
Ala Asp Leu Val His Pro Asp Ala Gln Asp Ile Leu Asp Thr Leu Glu
385                 390                 395                 400
Asp Asn Arg Glu Trp Tyr Gln Ser Thr Ile Pro Gln Ser Pro Ser Pro
            405                 410                 415
Ala Pro Asp Asp Pro Glu Glu Gly Arg Gln Gly Gln Thr Glu Lys Phe
            420                 425                 430
Gln Phe Glu Leu Thr Leu Glu Glu Asp Gly Glu Ser Asp Thr Glu Lys
            435                 440                 445
Asp Ser Gly Ser Gln Val Glu Glu Asp Thr Ser Cys Ser Asp Ser Lys
            450                 455                 460
Thr Leu Cys Thr Gln Asp Ser Glu Ser Thr Glu Ile Pro Leu Asp Glu
465                 470                 475                 480
Gln Val Glu Glu Glu Ala Val Gly Glu Glu Glu Ser Gln Pro Glu
            485                 490                 495
Ala Cys Val Ile Asp Asp Arg Ser Pro Asp Thr
            500                 505
```

Fig. 7.10

Exon start Exon end Exons	142207 142328 4D7-1	444645 444775 4D7-2	641649 641878 4D7-3	736254 737226 4D4	861791 862202 4D5	1044051 1044190 4D3	1273404 1273709 4D6	1354347 1355128 4D8	1414511 1414702 LF1	1436943 1436979 LF2	1445217 1445290 LF3
mRNA/cDNA variants / **Isoform**											
UO2882									*	*	*
L20969 4D4				*					*	*	*
AF012073 4D5					*				*	*	*
L20970 4D3						*			*	*	*
AF012074 4D2											
U50159 4D3						*			*	*	*
U50158 4D2											
U50157 4D1											
AJ250854 4DN3											
NM_006203 4D4				*	*				*	*	*
AJ250852 4DN1											
AJ250855 4DN2				*	*				*	*	*
BC008390 4DN3											
novel cDNA identified by deCODE											
RT-PCR 4D6	*	*	*				*		*	*	*
CAP-RACE 4D7											
CAP-RACE 4D8								*	*	*	*

Fig. 8A

Fig. 8B